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**CYLINDER AUDIO RECORDINGS  
AN ANNOTATED BIBLIOGRAPHY**

**Compiled and annotated by Gerald D. Gibson**

with the special assistance and participation of  
Carole Zimmermann and Terry Erb  
Preservation Research and Testing Office

**PRESERVATION DIRECTORATE  
LIBRARY OF CONGRESS  
Washington, DC  
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**Preface**

This bibliography had its inception in the Library of Congress's search for replacement of its equipment to play both wax and celluloid audio cylinder recordings (***NB*** *The Library plays its unique and/or especially fragile sound recordings -including such media as acetate discs and wax or celluloid cylinders-only to make preservation and user copies*). As the search began we were looking for information from those who had recently designed, built, modified, repaired, or acquired such playback equipment to determine if their sources or modifications were adequate for our needs. Specifically, we were seeking cylinder playback equipment with the greatest flexibility of speed, tracking, and handling or holding with minimum damage to the frequently rare and fragile recordings. As our search continued, it became apparent that much of the available information on equipment also included non-technical information that would prove useful in working with the recordings. Further, we came to realize that the sources were so limited that we would be doing ourselves -and, potentially, others- a service by compiling as complete a bibliography of materials dealing with cylinder recordings and related information as possible. Thus, this bibliography is an attempt to provide citations to ***all*** published -and selected manuscript- information dealing with cylinder audio recordings, whether related to technical, historical, cataloging, handling or holding, or social issues.

The style and organization of the bibliography follows the principles and punctuation of the American National Standards Institute's ***American National Standard for bibliographic references*** (ANSI Z39.29-1977). The body of the bibliography is organized in an A-Z alphabet by main-entry (author/s where available; title where no author is known). Where possible the cited work has been examined and information on inclusions (bibliographic references, illustrations, etc.), issued parts of a projected multi-volume set, reprints, *et al.*, as well as abstracts, are provided. Your assistance in acquiring copies of works *lacking* such

annotations and abstracts, as well as providing citations of works not included in this listing, are both needed and welcome.

The index includes all authors, titles, and subjects in a separate A-Z alphabet following the body of the bibliography. Sorting of both the body of the work and the index is letter-by-letter.

As with any such work, the compiler of this listing is indebted to the many individuals who have contributed to it. Most specifically, those who gave me particularly outstanding aid — far beyond that normally associated with *assistance* with such efforts— are two colleagues in the Library of Congress's Preservation Research and Testing Division: Carole Zimmermann and Terry Erb. Without them this work would be much slimmer, with many more errors and inconsistencies. Carole's efforts have been especially significant, for it has been she who has found new sources of information beyond my knowledge or experience, and it has been Carole who has known -or found out- the ways and means to recover the majority of the items I have been able to secure.

In addition, I wish to extend my thanks and appreciation for their information and contributions to Conrad Berger of the Library of Congress's Loan Division; Judith Gray of the Library of Congress's American Folklife Center; Albrecht Häfner of the Südwestfunk; Thomas Holzapfel; Detlef Humbert of the Süddeutscher Rundfunk; George Kipper of the Library of Congress's Motion Picture, Broadcasting, and Recorded Sound Division; Wolfgang Ritschel of the Sächsische Landesbibliothek; Mary Russell Bucknum of Indiana University's Archives of Traditional Music; Dietrich Schüller of the Phonogramm-Archiv of the Austrian Academy of Sciences; Peter Shambarger, the Executive Secretary of the Association for Recorded Sound Collections; Steven Smolian of Smolian Sound Studios; Ludwig Stoffels of the Deutsches Rundfunkarchiv; Günter Walter; Bernhard Wichert; and Susanne Ziegler of the Berliner Phonogramm-Archiv. Regardless of the assistance from these and many others, the decisions on inclusions and/or exclusions, as well as for final form, layout, indexing, and presentation, remain with me. Any problems or criticisms in these latter areas should be directed to me.

Finally, as with any bibliography, this is a continuing work-in-progress. I welcome all corrections and/or additions. Please send them to Gerald Gibson via e-mail at <ggib@loc.gov>, via FAX to +(202) 707-6449, or mail to Preservation Research and Testing Division, Library of Congress, Washington, D.C. 20540-4560. If possible, especially for esoteric or obscure items, I would greatly appreciate your assistance in acquiring copies to annotate and abstract.

## CYLINDER AUDIO RECORDINGS

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### An Annotated Bibliography

1. Agnard, Jean-Paul. **Ma collection de phonographes à cylindres**. [Charlesbourg? Quebec: Jean-Paul Agnard]; c1974. 38 p.  
Note: Illustrated; English text inserted (3 p.).  
Photographs with captions of various cylinder machines and cylinders (recordings and containers) from the author's collection.
2. *Analysis of wax* IN: Edison National Historic Site. Laboratory notebook N93-08-01.
3. Andem, James L. **A Practical guide to the use of the Edison Phonograph**. Cincinnati: Krehbiel; 1892.
4. Annand, H H. **The Catalogue of the United States Everlasting Indestructible cylinders, 1908-1913**. 2d ed. Bournemouth: The Talking Machine Review International; 1973. [36] p; ISBN: 0902338218.
5. Annand, H H. **The Complete catalogue of the United States Everlasting Indestructible cylinders, 1905-1913**. 2d ed. Bournemouth: City of London Phonograph & Gramophone Society; [1966]. [38] p.  
Note: Illustrated.
6. Annand, H H. **Numerical catalogue of all British blue amberol Edison cylinder records, 1912-1915**. 2d ed. [Hillingdon Middlesex: Annand; 1960]. 1 v, unpag.
7. Asakura, T [and others]. *Reproduction of sounds from old wax phonographic cylinders using laser-beam reflection method* IN: Optical Society of America. Institute of Electrical and Electronics Engineers. Acoustics, Speech and Signal Processing Society. **Topical meeting of signal recovery & synthesis II : Summaries of paper presented at the Signal recovery & synthesis II topical meeting, April 2-4, 1986, Honolulu, Hawaii / Sponsored by the Optical Society of American in cooperation with Acoustics, Speech, and Signal Processing Society of the Institutes of Electrical and Electronics**. Washington, D.C.: Optical Society of America; c1986: 493-496.
8. Aschinger, E; Lechleitner, Franz; Schüller, Dietrich. *The Old phonograms of the Vienna Phonogramm Archiv : Rerecording principles and practices* IN: **Phonographic Bulletin**; 1983; (35): 16-20.
9. Babin, Angela. *Celluloid film hazards in conservation* IN: **Art Hazards News**; 1990; 13(8): [2].  
Describes problems of safety in the handling and storage of cellulose nitrate film; summarizes recommendations of 1988 National Fire Protection Association (NFPA) "Standard for Storage and Handling of Cellulose Nitrate Motion Picture Film" (NFPA 40).
10. Baker, P A. *Illustration of the Edison Model C reproducer* IN: **Jerry's Musical News**; 1981 June; 2: 3.
11. Barnes, Everett K. **A Treatise on practical wax recording**. Inglewood, CA: Universal Microphone Co.; 1936.
12. Barts, Peter T. **Cylinder field recordings in the collection of the Archive of Folk Song, Library of Congress : A Preliminary survey** [manuscript]. Washington: Library of Congress; 1978.  
Note: Superseded by the Federal Cylinder Project : A Guide to field cylinder collections in federal agencies.  
A preliminary listing of the holdings of ethnic wax cylinders at the Library of Congress.
13. Beard, George M. *Nature of the newly discovered force* IN: **Scientific American**; 1875 December 25; (33): 400.
14. Beard, George M. *The Newly discovered force [Ethereic]* IN: **Archives of Electrology and Neurology**; 1875; (2): 257-82.

15. *Berichte und kleine Beiträge* IN: Holzapfel, Otto; Braun, Hartmut; Dittmar, Jürgen, editors. **Jahrbuch für Völkliedforschung : Im Auftrag des Deutschen Völkliedarchivs**; 1995 Vierzigster Jahrgang: 129-134.

16. Bettini, G. *The Micro-Graphophone* IN: **Scientific American**; 1890 May 9; (15): 281-282.

17. Betz, Peter C. **Edison Concert cylinder records : A Catalogue of the series issued 1899-1901**. Bournemouth: City of London Phdnograph & Gramophone Society; 1968. [20] p; 4 plates.  
Note: Facsimiles.

18. Brady, Erika. *The Box that got the flourishes : Early phonographic equipment in the field* Paper read before the Society for Ethnomusicology. **25th Anniversary Celebration**; 1980 November 23; Bloomington, Indiana.

Discusses method of operation, manufacturer of wax blanks, quality of sound retrievable, cost, limitations (recording time, speed and resulting pitch and performance variations, dynamic range and frequency response, effects of recording equipment and procedures upon performers, natural aging of the wax recordings) and uses of the cylinder phonograph to make field recordings.

19. Brady, Erika. *The Disembodied voice : First encounters with the phonograph* Paper read before the American Anthropological Society. **79th Annual Meeting**; 1980 December 7; Washington, D.C.

Presents responses to the disembodied phonographic voice common to both the individuals of the culture which produced the invention, as well as to those of other cultures to whom it was introduced.

20. Brady, Erika. *French wax cylinders* IN: **Folklife Center News**; 1981 July; 4(3): 1, 6-7.

21. Brooks, Tim. *Columbia records in the 1890s* IN: **Journal of the Association for Recorded Sound Collections**; 1978; 10(1): 5-36.

22. Brown, Geoffrey. *Development of a cylinder transcription methodology* IN: **Proceedings. Symposium on B. Pilsudski's Phonographic Records and the Ainu Culture International**; 1985; Sapporo, Japan. Sapporo: Hokkaido University Press; 1985. 24-29.

Summary of Lowie Museum of Anthropology, University of California at Berkeley collection (now housed at the Archive of Traditional Music at Indiana University) of ca. 3,000 wax cylinders, recorded 1903 to 1933 by field collectors studying anthropology and linguistics. Urgent conservation of this collection became apparent in the late 1960s and, in order to prevent further erosion of the grooves, a moratorium was instituted on their use until the cylinders could be safely transcribed onto magnetic tape. Report touches upon research into cylinder technology which led to the development of a safe and accurate method of transcription, a description of transcription machine is described, and choice of media (magnetic tape) for the recording.

23. Burgis, Peter. *Storage : Sound : Plate and platter preservation* IN: **Conservation in Australia**; 1977: 123-129.

Includes a short history of the disc and cylinder gramophone record and of magnetic tape, the properties and reasons for deterioration of same, and specifications for storage.

24. Burt, Leah Brodbeck Stenzel. *Chemical technology in the Edison Recording Industry* IN: **Journal of the Audio Engineering Society**; 1977 October-November; 25(10/11): 712-717.

25. Cain, John; Cain, Michael. **Talking machines**. 1st ed. London: Methuen; 1961. 80 p. (Methuen's Outlines).

Note: Illustrated; bibliography.

After a brief introduction to the science of sound recording presents information on the phonograph, the acoustic gramophone, and electric recording and reproducing.

26. Carneal, Robert B. *The Reproduction of cylinder recordings at the Library of Congress* IN: **Folklore and Folk Music Archivist**; 1960 Fall; 3(3): 1-2.

Summarizes history of cylinder reproduction and rerecording at the Library of Congress' Recording Laboratory from its founding in 1941 to the present, citing techniques, equipment, and media to which they have been rerecorded. Briefly describes procedures at cleaning, experiments with various pick-ups (photo-electric, electromagnetic, crystal, magnetic); reduction of surface noise; drive mechanisms used; use of speed alteration to simulate use of different drive screws; and plans for future work.

27. Carter, Sydney H. **Blue Amberol cylinders : A Catalogue**. Bournemouth: Talking Machine Review; [1978]. 130, [33] p; ISBN: 0902338315 (pbk).

Note: Facsimile.

28. Carter, Sydney H. **Edison Bell cylinders : A listing**. Bournemouth [Dorset]: Talking Machine Review; [197-? ]. <1- > v; ISBN: 0-902338-31-5 (pbk).  
CONTENTS: pt. 1: Gold moulded, 1904-1913.  
AVAILABLE FROM: J.E. Hough, Ltd, London.
29. Carter, Sydney H. **Edison Blue Amberol cylinder records : The Complete catalogue of the Edison Blue Amberol records, arr. in numerical order**. Abbots Close, Worthing: [Carter?]; 1963-64. 3 v.
30. Carter, Sydney H; Andrews, Frank; Watts, Leonard L. **Sterling**. Bournemouth: Talking Machine Review; 1975. [108] p.  
Note: Facsimiles; portraits.
31. Carter, Sydney H; Bayly, Ernie; Andrews, Frank. **A Catalogue of Clarion & Ebonoid records**. Bournemouth: Talking Machine Review; c1977. [70], 27 p.  
Note: Illustrated.
32. Cassell, Nancy A. *Cylinder project news : Ethnographic anomalies in cylinder recordings* IN: Resound; 1984 October; 3(4): 5-6.  
Part of the on-going reports on the N.S.L. funded cylinder preservation project at Archives of Traditional Music, Indiana University. Reports on the non-ethnic recordings found in the field recordings being rerecorded from cylinder to tape.
33. *Celluloid for phonograph records* IN: Scientific American; 1902 March 15; (86): 191.
34. Chew, V K. **Talking machines, 1877-1914 : Some aspects of the early history of The Gramophone**. London: H.M.S.O.; 1967. [3], 81 plates. (Science Museum Book).  
Note: Illustrated.
35. Chew, V K. **Talking machines**. 2d ed. London: H.M.S.O.; c1981. iv, 80 p. (Science Museum Book); ISBN: 0 11 290329 0.  
Note: Illustrated; annotated bibliography.  
Provides an overview of the development of the phonograph, following its story in the U.S. until 1902, then concentrating upon the European activities of the various American companies with an emphasis upon the British market.
36. Clements-Henry, B. **Gramophones and phonographs : Their construction, management and repair**. London: Cassell; 1913.
37. Cole, Fay-Cooper. *The Tinguian* IN: Gale, Albert. The Tinguian. Chicago: Field Museum of Natural History; 1922. (Field Museum of Natural History. Anthropological Series; v. 14/2).
38. *Combined mutoscope and talking machine* IN: Scientific American; 1908 April 25; (98): 292.
39. *Commercial graphophone for recording dictation* IN: Scientific American; 1908 October 25; sup.53:22151.
40. Cramer, Aaron. *The World's oldest recording : Frank Lambert's amazing time machine* IN: Antique Phonograph Monthly; 1992; 10(3): 1,3-8.  
Note: Illustrated; list of Lambert patents.  
After a brief biographical sketch, recounts how the materials were acquired, how the recording was recognized and played, content of the recording, describes the Lambert cylinder recording and machine (size dimensions, materials, weight), considers possible date (1879-1880), and comments on potential use of the recording as sound for a talking clock.
41. Custer, H. *Cylinder record cleaning* IN: New Amberola Graphic; 1981 Autumn.
42. Deakins, Duane D. **Cylinder records**. 2d ed. Stockton, California: Duane Deakins; 1958.
43. Dethlefsen, Ronald. *Dubbing de-mystified : The Logs of Edison's Columbia Street dubbing studio* IN: Antique Phonograph Monthly; 7(2): 3-5.
44. Dethlefsen, Ronald. **Edison Blue Amberol recordings : Graphic art by Michael Buchak**. 1st ed. Brooklyn, NY: APM Press; 1980<-81 >. <2 > vols.  
Note: Illustrated; bibliographic citations; indexed.  
CONTENTS: Vol 1: 1912-1914 : American popular series, "Live" recordings and selected recordings 1915-1928.-- vol. 2: 1915-1929.  
A collection of some of the record slips included with Edison Blue Amberol popular American music records, 1912-1929. Includes historical overview, indices, release dates, information on how Blue Amberols were made.

45. Dethlefsen, Ronald. *Edison's Blue Amberol cylinder washing machine* IN: **In the Groove : Michigan Antique Phonograph Society**; 1984 January.
46. Dethlefsen, Ronald; Buchak, Michael. **Edison Blue Amberol recordings**. 1st ed. Brooklyn, N.Y.: APM Press; 1980-(1981 ). v. Note: Bibliographies; indexes.
47. Deutsches Rundfunk; Grossmann-Vendrey, Susanna. **Edison-Zylinder : Übertragungen von Phonographenzylindern im Deutschen Rundfunkarchiv**. Frankfurt am Main: Das Rundfunkarchiv; 1985. xlv, 308 p. (Bild- und Tonträger-Verzeichnisse; v. Nr. 16). Note: Illustrated.
48. Dickson, W K L; Dickson, Antonia. *Edison's invention of the Kinetophone* IN: **Century**; 1894 June; (206): 14.
49. Dorian, Frank. *Reminiscences of the Columbia cylinder records* IN: **Phonograph Monthly Review**; 1930 January.
50. DuMoneel, Theodore Achille Louis. **The Telephone, the microphone, and the phonograph**. New York: Harper; 1879.
51. *Early spring-driven, coin-operated phonographs* IN: **Antique Phonograph Monthly**; 1973 March; 1(3): 1-2.
52. Edison Phonograph Works. **Inventor's handbook of the phonograph**. Newark, NJ: Ward & Tichenor; 1889.
53. *Edison didn't make his first 'spring-motor' and 'Home-Phonographs'* IN: **Antique Phonograph Monthly**; 1973 March; 1(3): 3-4.
54. Edison, Thomas Alva. **The Phonograph and its future : and The Auriphone and its future**. Toronto: Rose-Belford Publishing Co.; 1878.
55. Edison, Thomas Alva. *The Phonograph and its future* IN: **North American Review**; 1878 May-June.
56. *Edison's forty years of litigation* IN: **Literary Digest**; 1913 September 13; 47: 449.
57. *Edison's gift to humanity* IN: **Literary Digest**; 1915 October 2.
58. *Edison's Kinetograph and cosmical telephone* IN: **Scientific American**; 1891 June 20; (64): 393.
59. Edison-Bell Consolidated Phonograph Co. **Directions and instructions for thoroughly understanding and operating Edison's phonographs, and the general principles governing all talking machines**. London: Edison-Bell Consolidated Phonograph Co; 1902? 16, [4] p. Note: Illustrated.
60. Edison-Bell Consolidated Phonograph Co. **Directions and instructions for thoroughly understanding and operating Edison's phonographs, and the general principles governing all talking machines**. Bournemouth: E. Bayly; [1969]. 16, [4] p. Note: Reprint of 1902? edition. Illustrated. After providing 12 points on proper handling, placement of the cylinder on the machine, and equipment operation and basic maintenance, gives reader information on the cylinder phonograph and its operation (includes sections on diaphragm, reproducer, recorder, the record, recording, speed, shaving wax cylinders, on differences in various models of equipment, and instructions for special apparatus).
61. Edisonia, Ltd. **Directions and instructions : Edison's phonographs**. London: Edisonia, Ltd; 1902. Note: 1970 reprint.
62. Electric and Music Industries Ltd. **The EMI collection** / [compiled and edited by E. Bayly ; photography by Brian Willison]. 2d ed. Bournemouth: Talking Machine Review; 1977. [188] p; ISBN: 0902338285. Note: Chiefly illustrated.
63. English, John C. *Testimony* IN: American Graphophone Co. vs. United States Phonograph Co., et al **IN THE U.S. Circuit Court for the District of New Jersey. In Equity No. 4004 on Patents Nos 341,214 and 341,288**; 1898 September 30. NN-NARC.

64. Fesler, John C. [Letter to Koolakian, Robert G (Curator of Edisoniana, Edison Institute, Dearborn, MI)]; 1981 January 11. 9.
65. Fesler, John C. *Electrical reproduction of acoustically recorded cylinders and discs : Part 2* IN: Journal of the Audio Engineering Society; 1983 September; 31(9): 674-694.  
Note: Presented at the 70th Convention of the AES (NYC 1981 October 30-November 2); revised 1983 February; part 1 by Tom Owen, appeared in the Journal of the Audio Engineering Society (31:4) 1983 April, 266-275.  
Illustrated; bibliographic references.  
After a summarization of Mapleson's recording techniques at the Metropolitan Opera at the turn of the century, presents basis of work undertaken to re-record resulting wax cylinders: "...to discover the best ways to recover sound information from ... cylinders and records of that era, it would be wise for the modern engineer and archivist to actually apply the Edison technology of 1900 and make a few sample recordings using original equipment and techniques. ... Once this is done, it is possible to have a standard of recorded music and even recorded test tones on cylinder records with which to compare the original recordings." Article then documents the equipment and procedures used to re-record Mapleson wax cylinders, including historical references to the development of sound recordings; formula and preparation of wax cylinders; causes for differences in color of wax; causes of deterioration (heat, mold, moisture, packaging, dark storage, breakage); recommends storage environment for brown wax cylinders (50-60°F, 40-50% R/H); wax shaving equipment, procedures, and techniques; improvements and variations in wax cylinder recording equipment (cutters, recording horns, speed calibration); and experimental recordings made in 1980 and 1981 with the Illinois Wesleyan University Wind Ensemble (Bloomington, Illinois), using equipment similar to that used by Mapleson.
66. Fesler, John C. *Getting the speed right : Accurate speed adjustment for your Edison cylinder phonograph* IN: In the Groove : Michigan Antique Phonograph Society; 1982 March; 7.
67. Fesler, John C. *How to get the most from your Edison cylinder phonograph* IN: In the Groove : Michigan Antique Phonograph Society; 1980 May; 3-8.
68. Fesler, John C. *Notes on the Edison Phonograph* IN: Hillandale News : City of London Phonograph and Gramophone Society; 1980 June; 39-42.
69. Fewkes, J Walter. *A Contribution to Passamaquoddy folk-lore* IN: Journal of American Folk-lore; 1890 October-December; 3(11): 257-280.  
Note: Musical examples.
70. Fewkes, J Walter. *Edison phonograph in the preservation of the languages of the American Indians* IN: Scientific American; 1890 May 2; 1890 May 24.
71. Field, Mike. *Restoring the Edison Gem phonograph*. Rugby, UK: City of London Phonograph and Gramophone Society; c1985. 44 p. (The Hillandale series of restoration manuals for phonographs and gramophones; v. no. 1).  
Note: 3 folded leaves of illustrations.  
Provides information for the restoration of the "short key wind" and the "crank wind" model B Edison "Gem" phonographs.
72. Field, Mike. *Technical Forum : Edison Model C reproducer* IN: Hillandale News : The City of London Phonograph and Gramophone Society; 1981 April: 190.
73. *First public exhibition of Edison's Kinetograph* IN: Scientific American; 1893 May 20; (68): 310.
74. Franklin, Howard B. *Sound motion pictures*. New York: Doubleday, Doran & Co; 1929: 290-300.
75. Frow, George L. *The Cylinder phonograph in Great Britain* IN: Phonographs & gramophones : A Symposium organised by the Royal Scottish Museum in connection with the exhibition Phonographs and Gramophones and the centenary of the invention of the phonograph by Thomas Alva Edison : Held in the Royal Scottish Museum, Chambers Street, Edinburgh, on Saturday 2nd July 1977. Edinburgh: Royal Scottish Museum, 1977: 49-56.  
NOTE: Bibliographies.
76. Frow, George L. *Edison cylinder phonograph companion*. Woodland Hills, CA: Stationery Xpress; 1994.

77. Frow, George L. **A Guide to the Edison cylinder phonograph : A Handbook for collectors containing details of the spring-driven models produced from 1895-1929, with some notes on the earlier models manufactured by the North American Phonograph Co., the National Phonograph Co., and later Edison companies at Orange, New Jersey, U.S.A.** St. Austell: Anthony; 1970. 64 p; ISBN: 0950209406.

Note: Illustrated.

78. Frow, George L; Sefl, Albert F. **The Edison cylinder phonographs : A Detailed account of the entertainment models until 1929.** 1st ed. Sevenoaks, Kent: G. L. Frow; 1978. xii, 107 p; ISBN: 0 9505462 2 4.

Note: Illustrated; bibliography.

Provides a wide variety of information on cylinders and cylinder machines, including, but not limited to, dating Edison phonographs, a chronology of the Edison phonograph companies, historical development of the Edison phonograph, domestic styles of the Edison cylinder phonographs, the Edison electric and spring-driven coin-slot phonographs, various attachments and parts (reproducers, recorders, horns, repeating attachments, and shavers), and a listing of relevant phonograph patents.

79. Garbit, Frederick J. **The Phonograph and its inventor : Thomas Alva Edison.** Boston: Gunn, Bliss; 1878.

80. Gelatt, Roland. **The Fabulous phonograph.** Philadelphia: Lippincott; 1955.

81. Gelatt, Roland. **The Fabulous phonograph.** 2d ed. Philadelphia: Lippincott; 1977.

82. Gibson, Gerald D. **Decay and degradation of disk and cylinder recordings in storage IN: Archiving the audio-visual heritage : A Joint technical symposium : FIAF, FIAT, IASA; 1987** May 20-22; Berlin (West). International Congress Center : Organized by Stiftung Deutsche Kinemathek. Berlin (West): Stiftung Deutsche Kinemathek; 1988: 47-53.

Note: Illustrated.

With photographs, summarizes scope of problems and wide variety of disc and cylinder media; reviews packaging used for both carriers; make-up (cellulose-nitrate) of celluloid cylinders, concluding that testing indicates there is little danger of the sort associated with nitrate-based film (combustion point of nitrate-based film was corrected during discussion, from 90°C/194°F to 40°C/104°F); reviews ARSC/AAA position on of digital technology for

preservation; and concludes with storage recommendations for cylinders and discs.

83. Gibson, Gerald D. **Preservation and conservation of sound recordings IN: Henderson, Kathryn Luther; Henderson, William T. Conserving and preserving materials in nonbook formats.** Allerton Park Institute Conference; 1988 November 6-9; Urbana. Urbana-Champaign, Illinois: University of Illinois at Urbana-Champaign, Graduate School of Library and Information Science; 1991. 27-44.

Note: Includes bibliographical references.

Gives summary of the various sound carriers produced over the years most frequently encountered in the modern working collection or in most archives, i.e., cylinders, discs, and tape recordings with emphasis on cleaning and storage. Includes addresses for preservation product suppliers, recommended storage procedures, materials, weight and space requirements.

84. Gillett, W. **The Phonograph and how to construct it.** London: E. & F. N. Spon; 1892.

85. Gillis, Frank J. **The Incunabula of instantaneous ethnomusicological sound recordings, 1890-1910 : A Preliminary list IN: Kassler, J; Stubington, J. Problems & solutions : Occasional essays in musicology : Presented to Alice M. Moyle.** Sydney: Hale & Iremonger; 1984: 322-355.

Note: Illustrated.

Following a brief introduction addressing the use of the phonograph to collect field data, establishment of central facilities to collect and store resulting recordings, and summary review of various methods of reproducing same, provides a listing (pp.327-255) of collections of same. Under each geographical-cultural area recorded, information provided includes collector/s or recordist/s, where and when collection was recorded, sponsoring agency and/or name of expedition, number of items in collection, recent publications/reissues of recorded incunabula, archives/libraries/museums at which the original items and/or copies are stored, and additional notes.

86. Gilman, Benjamin I. **Hopi songs IN: Journal of American Ethnology and Archeology; 1908; 5: 28-29.**

87. Girard, Victor James; Barnes, Harald Melzar. **Vertical-cut cylinders and discs : A Catalog of all "Hill-&Dale" recordings of serious worth made and issued between 1897-1932**

- circa. London: British Institute of Recorded Sound; 1971. xxxviii, 196 p.  
Note: Illustrated.  
"Facsimile reprint (corrected) of the original 1964 edition."
88. Glackens, I. *The Mapleson collection* IN: The Gramophone; 1938 November.  
Cited in Journal of the Audio Engineering Society (31:4) 1983 April, article by Tom Owen.
89. Gray, Judith A. *The Songs come home : The Federal Cylinder Project* IN: U.S. Department of the Interior. National Park Service. CMR; 1991; 14(5): 32-35.  
Note: Illustrated.  
Following a brief review of the establishment and early years of the Library of Congress's American Folklife Center, reports on work of The Federal Cylinder Project and the work to preserve, document, catalog, and disseminate the information in the one-of-a-kind wax cylinders placed in the Library of Congress since the 1930s.
90. Gray, Judith A. *The Songs come home : The Federal Cylinder Project* IN: Sonneck Society Bulletin; 1992 Spring; 17(1): 3-5.  
Note: Reprint of article of same titles in CRM (1991; 14/1: 32-35).  
Following a brief review of the establishment and early years of the Library of Congress's American Folklife Center, reports on work of The Federal Cylinder Project and the work to preserve, document, catalog, and disseminate the information in the one-of-a-kind wax cylinders placed in the Library of Congress since the 1930s.
91. Hall, David. *The Mapleson cylinder project [pt. 1-3]* IN: Recorded Sound; 1982 July; 1983 January; 1984 July; (82, 83, 86): 21-55; 21-55; 5-28.  
An article in 3 parts, detailing the history of the cylinder; the repertoire, performers and recording dates, and a typescript of the Glackens-Bishop notebook.
92. Harrah-Conforth, Bruce. *Cylinder project news : Restoring the past : Technical developments in cylinder repair* IN: Resound; 1984 April; 3(2): 3-4.  
Note: Illustrated.  
Part of the on-going reports on the N.S.L. funded cylinder preservation project at Archives of Traditional Music, Indiana University. Reports on procedures developed to repair broken wax phonograph cylinders.
93. Hauser, Fritz. *Ein Apparat zur Kopierung phonographischer Schrift von Edison-Walzen auf die Platten des Archivphonographen* IN: Berichte der Phonogramm-Archiv-Kommission der Kaiser Akademie der Wissenschaften in Wien; 1906; (8).  
Illustrated.
94. Hazelcorn, Howard. *Collector's guide to the Columbia spring-wound cylinder graphophone, 1894-1910*. Brooklyn: APM Press; 1976.
95. Hedberg, Tom. *Rescuing the voices of the dear : A Laser-read sound reproduction system* IN: Antique Phonograph Monthly; 1978; 5(8): 7-8.
96. Herzog, George. *Research in primitive and folk music in the United States* IN: Bulletin of the American Council of Learned Societies; 1936 April; (24): 14.
97. Hornbostel, Erich M von. *Das Berliner Phonogramm Archiv* IN: Zeitschrift für Vergleichende Musikwissenschaft; 1933; 1: 40-45.  
Includes summary information on the archive and sample lists of recordings in the collection.
98. Hornbostel, Erich M von. *Phonographische Methoden* IN: Handbuch der biologischen Arbeitsmethoden; 1930; 5(7): 419-438.  
Cited in Ziegler, Suzanne: From wax cylinders... (Resound 13 January/March 1994) p.5.
99. Indiana University, Bloomington Archives of Traditional Music; Seeger, Anthony; Spear, Louise E. *Early field recordings : A Catalogue of cylinder collections at the Indian University Archives of Traditional Music*. Bloomington: Indiana University Press; c1987. xviii, 198 p.  
Note: Bibliography.
100. Inman, Carol. *Cylinder project news : Recording intellectual history* IN: Resound; 1984 January; 3(1): 4.  
Part of the on-going report of progress on the N.S.F. funded cylinder project at the Archives of Traditional Music, Indiana University.
101. Institute of American Indian Arts, *A Meeting to discuss the dissemination phase of the Federal Cylinder Project* [sound recording];

1981 March 27-28; Santa Fe, New Mexico. Available from the Library of Congress, American Folklife Center.

102. Jabbour, Alan. **Santa Fe meeting on cylinder dissemination** [memorandum]. Washington: Library of Congress, American Folklife Center; 1981 June; 4(3): 1, 6-7.

103. Jewell, Brian. **Veteran talking machines : History and collectors' guide**. Turnbridge Wells [England]: Midas Books; 1977. 128 p; ISBN: 0859360857.

Note: Illustrated; bibliography.

104. Johnson, Edward H. *A Wonderful invention* **IN: Scientific American**; 1877 November 17; (37): 304.

105. Kaplan, Mark S. *Breaking the mold : A Chemist looks at wax's enemy (part 1)* **IN: Antique Phonograph Monthly**; 6(5): 1, 3-5.

Note: Photographs; chart.

Part 2 not issued.

After summary history of wax cylinders and of various formula for same, brief warning about flammability of celluloid cylinders, gives information on relative susceptibility of wax cylinders to mold, on environment most conducive to mold growth on wax cylinders (75-85°F, +60% R/H), on general handling and procedures and needs for proper containers, on how most common mold manifests itself (as white-gray spots surrounded by filamentary strands of mold), on damage from same, and on desired storage to prevent mold growth (50-60°F, 40-50% R/H; separate storage of infected and uninfected cylinders), and of work being done on a 'cure' for mouldy cylinders.

106. Kesting, Piney. *A Doorway in time* **IN: Aramco World**; 1993 September-October; 44(5): 32-41.

Note: Illustrated.

In general terms, describes the discovery, re-recording at the Akademie der Wissenschaften (Wien), and importance of 211 wax cylinders recorded in the Arabian Peninsula shortly after the turn of the century. Rediscovered in 1983 in the Oriental Institute, Leiden, The Netherlands, the cylinders are believed to have been recorded by or under the direction of Christiaan Snouck Hurgronje, and were shipped back to Leiden from The Netherlands legation in Jiddah between 1907 and 1920.

107. Klinger, Bill. *Celluloid cylinders : 'Albany' Indestructible vs. U-S Everlasting* **IN: Antique Phonograph News**; 1994 September-October; (3-10).

Note: Illustrated.

Provides information on the Indestructible Phonographic Record Co. (IPRCo) of Albany, NY, and the various labels under which they were issued (Indestructible Phonographic Record; Columbia Gold Moulded Indestructible Cylinder Record; Oxford Indestructible Cylinder Record; Lakeside Indestructible Cylinder Record; Everlasting Indestructible Record; Federal Cylinder Record) and the U-S Phonograph Co of Cleveland, Ohio (U-S Phonograph Co; U-S Everlasting). Information provided includes dates of issue, issue blocks, descriptions of the records, and illustrations and descriptions of the containers.

108. Klinger, Bill. *A Cylinder industry survey* **IN: Journal of the Association for Recorded Sound Collections**; 1995 Fall; 26(2): 172-175.

Note: Includes bibliographic citations.

Part of the May 14, 1994, ARSC Technical Committee presentation at the 1993 ARSC Conference.

Describes a long-term project to document all types and brands of cylinder records and their manufacturers.

109. Klinger, Bill. *The Short-lived 'Harris Everlasting Record'* **IN: Antique Phonograph Monthly**; 10(3-4).

Note: Illustrated.

Summarizes the relationship and history of the Harris Everlasting Record and the U.S. Everlasting Record and related business.

110. Koenigsberg, Allen. **Edison cylinder recordings : 1889-1912 : With an illustrated history of the phonograph**. 1st ed. New York: Stellar Productions; [1969]. Ixii, 159 p.

Note: Illustrated; facsimiles; portraits.

111. Koenigsberg, Allen. **Edison cylinder records, 1889-1912**. Brooklyn: APM Press; 1987.

112. Koenigsberg, Allen. **The Patent history of the phonograph : 1877-1912 : A Source book containing 2,118 U.S. sound recording patents & 1,013 inventors, arranged numerically, chronologically and alphabetically**. Bi-centennial ed. Brooklyn: APM Press; c1990. Ixxii, 87 p.

Note: Illustrated.

113. Kroeber, Alfred L. *Reproduction of cylinder recordings at the Museum of Anthropology at the University of California at Berkeley* **IN: Folklore and Folk Music Archivist**; 1960 Spring; 3(1): 2.

Summarizes history of reproduction of cylinders at the Museum from 1927 through 1958, with general

information on selection procedures, techniques, and method of playing and rerecording for each group.

114. Krows, Arthur Edwin. **The Talkies**. New York: Henry Holt and Co; c.1930.

115. La Vigna, Maria. *The Expanding role of the ethnomusicologist : Problems posed by the Federal Cylinder Project* **Paper read before the Society for Ethnomusicology. Annual Meeting**; 1980 November 23; Bloomington, Indiana.

Beginning with the work of Jesse Walter Fewkes (1890), summarizes scope of content, need, and efforts being made to preserve and make available wax cylinder recordings of ethnic materials.

116. La Vigna, Maria. *The Native American heritage on wax : Historic sound recordings from the Library of Congress*. **Paper read before the Plains Indian Arts Festival**; 1980 May 16; Haffenreffer Museum of Anthropology. Brown University. Providence, Rhode Island.

Summary of history of field recordings from Jesse Walter Fewkes (1890) and efforts being taken to preserve and make available recordings of same in the collections of the Library of Congress.

117. Lechleitner, Franz. *The Construction of cylinder replay machines* **IN: Archiving the audio-visual heritage : A Joint technical symposium : FIAF, FIAT, IASA**; 1987 May 20-22; Berlin (West). International Congress Center : Organized by Stiftung Deutsche Kinemathek. Berlin (West): Stiftung Deutsche Kinemathek; 1988: 79-80.

Note: Illustrated.

"This is an updated version of a paper presented at the ARSC Conference, New York, 1986, published in Phonographic Bulletin, no. 45, 1986".

Reviews problems specific to reproduction of cylinder recordings (deformation, shallow grooves, and fragility) and, with evaluation of its advantages and limitations, describes a playback machine specifically designed for reproduction of all cylinder formats.

118. Lechleitner, Franz. *A Newly constructed cylinder replay machine for all formats* **IN: Phonographic Bulletin**; 1986 June; (45): 44-47.

Note: Illustrated.

Following a brief historical summary and noting problems of preservation of wax cylinders, presents problems of design of a cylinder playback machine, treatment or potential modification of cylinders (reaming, etc.), problems of handling cylinders, considers and discards possible modification of existing period equipment for modern playback purposes, equipment needs for modern

equipment playback, and description of the machine which has subsequently evolved at the österreichische Akademie der Wissenschaften, Phonogramm Archiv.

119. Lechleitner, Franz. *A Newly constructed cylinder replay machine for 2-inch diameter cylinders* **IN: Archiving the audio-visual heritage : Third Joint technical symposium**; 1990 May 3-5; Canadian Museum of Civilization, Ottawa. Boston, George, editor. Rushden, Northants: Technical Coordinating Committee and UNESCO; 1992: 145-148; ISBN: 1 873902 02 6.

Note: Illustrated.

Following a brief historical summary, noting problems of preservation of wax cylinders, and summary of types of playback systems and equipment used and/or attempted, presents problems of design of a cylinder playback machine, treatment or potential modification of cylinders (reaming, etc.), problems of handling cylinders, describes work on the machine which has subsequently evolved at the österreichische Akademie der Wissenschaften, Phonogramm Archiv.

120. Lee, Dorothy Sara. **Native North American music and oral data : A Catalogue of sound recordings, 1893-1976**. Bloomington: Indiana University Press; 1979. xiv, [ii], 463.

A Guide to the holdings of native North American music and oral data at the Archives of Traditional Music, Indiana University.

121. Lesesrboura, Austin C. *Pictures that talk and sing* **IN: Lesesrboura, Austin C. Behind the motion picture screen**. New York: Scientific American Publishing Co; 1921: 290-300.

122. Library of Congress. American Folklife Center. *American folklife on cylinder recordings : A Federal cultural challenge* **IN: Folklife Center News**; 1979 October; 2(4): 6-7.

123. Library of Congress. American Folklife Center. *Cylinder project update* **IN: Folklife Center News**; 1981 October; 4(4): 7.

124. Library of Congress. American Folklife Center. **The Federal Cylinder Project : Status report for the two-year period June 1, 1979 to May 31, 1981**. Washington: Library of Congress; 1981 June 22.

125. Library of Congress. American Folklife Center. *Grant to Federal Cylinder Project* IN: Folklife Center News; 1982 January; 5(1): 1, 3.

126. Library of Congress. American Folklife Center. *Inventory of instantaneous cylinder recordings documenting folk culture in the collections of Federal agencies*. 1981 September 30 revision ed. Washington: Library of Congress; 1981 May.

Note: Superseded by *The Federal Cylinder Project: A Guide to field cylinder collections in federal agencies* (Library of Congress; 1984-).

A preliminary listing of field cylinder recordings at the Library of Congress.

127. Library of Congress. American Folklife Center. *Wax cylinder recordings to be transferred to tape* IN: Folklife Center News; 1979 April; 2(2): 1.

128. Library of Congress. American Folklife Center. *Wax cylinder conversion to tape project under way* IN: News from the Library of Congress; 1979 May 3.

129. Library of Congress. American Folklife Center. *Working conference to discuss the Federal Cylinder Project: Minutes*. [typescript] 1979 April 10; American Folklife Center, Library of Congress. Washington: Library of Congress.

130. Library of Congress. American Folklife Center; Brady, Erika; La Vigna, Maria; Venum, Thomas; Gray, Judith A; Schupman, Edwin J, Jr; Lee, Dorothy Sara; Pontecorvo, Gregory. *The Federal Cylinder Project: A Guide to field cylinder collections in federal agencies*. Washington: Library of Congress; 1984-<1990>. v. <1, 2, 3, 5, 8>. (Studies in American Folklife; v. 3).

Note: Available from the Superintendent of Documents, United States Government Printing Office.

Illustrated; maps; bibliographic citations

CONTENTS: v.1: Introduction and inventory. --v.2: Northeastern indian catalog. Southeastern indian catalog. --v.3: Great Basin/Plateau indian catalog. Northwest coast/Arctic indian catalog. --v.4: --v.5: California indian catalog. Middle and south American indian catalog. Southwestern indian catalog I. --v.6: . --v.7: . --v.8: Early anthologies.

Following a prefatory statement which gives scope and urgency to the project, and sections which give details of the project (establishment of the project, equipment, selection, documentation of both content and procedures,

etc.), presents a survey of Federal Cylinder Project collections, and information on how to use the inventory.

131. Lindeman, Kathryn. *Old recordings being taped to preserve native culture* IN: The Herald-Telephone. Bloomington, Indiana; 1979 December 28.

132. List, George. *The Reproduction of cylinder recordings [pt. 1]* IN: Folklore and Folk Music Archivist; 1958 December; 1(4): 2-3.

Note: Includes bibliographic references; illustrated.

Reviews original recording, duplication, playback, and rerecording of cylinder recordings and discs; determines that there are two basic procedures (mechanical connection of two styli and galvano-plastic process), specifically citing procedures for duplication of cylinders and discs at the Phonogramm-Archiv, Kaiserliche Akademie der Wissenschaften (Vienna) and Phonogramm-Archiv, University of Berlin (Berlin).

133. List, George. *The Reproduction of cylinder recordings [pt. 2]* IN: Folklore and Folk Music Archivist; 1959 Spring; 2(1): 3.

Note: Includes bibliographic references; illustrated.

Continues review of original recording, duplication, playback, and rerecording of cylinder recordings and discs, citing procedures and equipment used at Yale University (New Haven, CT), Archive of Oriental Music, Hebrew University (Jerusalem), and Archive of Folk and Primitive Music, Indiana University (Bloomington, IN).

134. List, George. *The Reproduction of cylinder recordings [pt. 3]* IN: Folklore and Folk Music Archivist; 1959 Summer; 2(2): 3-4.

Note: Includes bibliographic references; illustrated; chart.

Continues review of original recording, duplication, playback, and rerecording of cylinder recordings, addressing issue of speed of recording and playback, base materials of wax cylinders, cause of deterioration.

135. List, George. *A Short history of the cylinder phonograph [pt. 1]* IN: Folklore and Folk Music Archivist; 1958 June; 1(2): 3.

Note: Includes bibliographic references.

A summary of the development of the cylinder recording from 1977 with an emphasis on use of same in folk and/or anthropological collections.

136. List, George. *A Short history of the cylinder phonograph [pt. 2]* IN: Folklore and Folk Music Archivist; 1958 September; 1(3): 3.

Note: Includes bibliographic references.

A summary of the development of the cylinder recording from 1977 with an emphasis on use of same in folk and/or anthropological collections.

137. List, George; Reinhard, Kurt. *Notes IN: The Demonstration collection of E. M. von Hornbostel and the Berlin Phonogramm-Archiv* [sound recording]. New York: Ethnic Folkways Library; 1963; FE 4175.
138. Lyons, James. *Testimony IN: U.S. Circuit Court for the Southern District of New York In Equity No 7063. American Graphophone Co. vs. National Gramophone Co. and Frank Seaman.*  
NN-NARC.
139. Macdonald, Thomas H. *Manufacturer of Graphophone-tables : U.S. Patent 606,725; 1898 July 5.*  
Application filed November 27, 1896; granted July 5, 1898;.
140. Maier, Bruce R. *In search of the perfect record cleanser IN: High Fidelity; 1972*  
September; 22: 54.
141. Maken, Neil. *Hand-cranked phonographs : It all started with Edison : An Introduction to vintage talking machines, records, and more, with forewords by Oliver Berliner and George Tselos.* 1st ed. Huntington Beach, CA: Promar Pub.; 1993. ix, 87 p.  
Note: Illustrated; bibliographic references.  
AVAILABLE FROM: PO Box 6554, Huntington Beach, CA 92615).  
Cover title: Hand-cranked phonographs : It all started with Edison-- : An Introduction to vintage talking machines, records, and accessories, the most asked questions and a complete section on troubleshooting.  
Covering the period from the invention of the phonograph in 1877 to approximately 1929, provides an overview of the history of vintage record machines, as well as pointers on helping to identify different models and manufacturers.
142. Manuel, Anna-Maria. *Cylinder record research : Review of ARSC conference papers IN: Antique Phonograph News; 1996*  
January-February; (7-8).  
Note: Illustrated.  
Reports on the presentations at the 1993 ARSC conference dealing with cylinder recordings and on publication of some of them in the ARSC Journal (1995; 26/2; 131-175).
143. *Manufacturer of Edison phonograph records IN: Scientific American; 1900*  
December 22; (83): 389-390.
144. Marty, Daniel. *Histoires de phonographes : Première présentation publique de la Collection Daniel Marty : Juin - juillet 1977 : Une production du Centre culturel communal de Saint-Denis.* Saint-Denis: Collection Daniel Marty; [1977?]. 36 p.  
Note: Illustrated.
145. Marty, Daniel. *Histoire illustree du phonographe.* Lausanne ; Paris: Edita ; Vilo; c1979. 189, [6] p.  
Note: Illustrated.
146. Marty, Daniel. *Illustrated history of phonographs.* New York: Dorset; 1981.
147. Maxwell, Bennett. *The Incunabula of recorded sound : A Guide to early Edison non-commercial cylinder recordings.* London: [Privately printed by Bennett Maxwell]; 1989.
148. Mayo, E W. *A Phonographic studio IN: Quaker Magazine; 1899 July: 635-640.*  
Reprinted in The Antique Phonograph Monthly (6) 107+.
149. Meulengracht-Madsen, Hans. *On the transcription of old phonograph wax records IN: Journal of the Audio Engineering Society; 1976*  
January-February; 24(1): 27-32.  
Note: Illustrated.  
After brief description of 167 1919-1923 cylinder recordings made by Elsdon Best, James McDonald, and Johannes Anderson of Maori culture, now held by Dominion Museum (Wellington, NZ), describes a machine constructed for the purpose of transcribing cylinder recordings. Discusses problems and practical solutions of speed fluctuation and noise occurring during transcription.
150. Michaels, Jan. *The Condition survey of sound recordings at the National Library of Canada : Implications for conservation IN: Canadian Conservation Institute. Saving the twentieth century : The degradation and conservation of modern materials : Abstracts = Sauvegarder le XXe siècle : La Dégradation et la conservation des matériaux modernes.* Symposium '91; 1991; Ottawa. Ottawa: Canadian Conservation Institute; 1993. 13-24.  
Note: Illustrated; bibliographic references.  
Reports on the 1990 condition survey of audio collection of National Library of Canada, (reel-to-reel tapes, cylinders, Lps, 45s, and 78s). Information was obtained that will assist in collection management, preservation, and conservation planning. Inspection included evaluation of

shelving methods and containers for suitability and condition; carrying out lignin and pH spot tests on containers made of paper-based materials; identification of base materials and oxide layers of sound recordings; rub and smell tests carried out on open reel tape, as well as physical examination for over 20 categories of damage, including creasing, stretching, flaking, blocking, and plasticizer migration; for discs, examination included groove wear. Survey results were tabulated and implications reviewed. The survey highlights unsolved technical and ethical conservation issues, such as whether the aim of repair is to allow to play an item one more time, or to conserve it for posterity? Concludes with a discussion of the National Library's attempts to come to grips with the problem of establishing a discipline of sound recording conservation.

151. Miller, Phillip L. *Ghosts for sale : Mapleson cylinders in the New York Public Library* IN: Opera News; 1941 December 8; 6(8): 22, 29.

152. Moore, Wendell. *Edison Phonograph Monthly, 1903-1916*. Sedona, AZ: Wendell Moore; 1976-1989.

153. *Multiplex phonograph with five cylinders* IN: Scientific American; 1896 November 28; (75): 393.

154. Museo teatrale alla Scala presenta : Pol vennero le macchine parlanti : Mostra storica di fonografi e grammofoni : Collezione Marco Contini, dal 30 gennaio al 28 febbraio : Catalog a cura di Discoteca alta fedelta. [Italy: s.n.; 1971]. [90] p.

Note: Illustrated.

AVAILABLE From Litomaxi, Milan, Italy.

155. National Phonograph Co. *Edison Home Phonograph : Directions for setting up and operating*. Orange, NJ: National Phonograph Co; 1905.

156. National Phonograph Co. *How to make records at home with an Edison Phonograph*. Orange, NJ: National Phonograph Co; 1906.

157. National Phonograph Co. *The Phonograph and how to use it*. Orange, NJ: National Phonograph Co; 1900.

158. Netzer, Bob. *Cleaning of early discs and cylinders : Expert advises care for records* IN: Collectors News; 1982 November: 64-65.

Describes a collector's methods for cleaning and storing wax and Blue Amberol cylinders and 78s: for cylinders, points out that wax cylinders are especially susceptible to mold; warns sudden temperature changes of even relative small amounts can cause breakage; recommends using liquid detergent and a soft bristled brush to clean cylinders, drying with a soft cloth; cites storage conditions of 70°F and 65% RH as "ideal"; using sparing amounts of cold cream to wipe wax cylinders; advises against immersing Amberol cylinders when washing in order to protect the plaster of Paris cores; reaming off-round cylinders to get them to fit on the mandrel. For discs, recommends using similar liquid detergent solution, NOT immersing the disc due to potential label problems, but placing it on a flat surface and "scrubbing with vigor with a soft bristle brush," rinsing and standing to drain -not dry- in a rubber-coated dish rack, blotting on such as "Bounty paper towels," and packaging into a clean jacket; suggests storing discs "flat with a maximum of 100 records to each pile".

159. Newton, Henry Edward. *U.S. Patent 26,075 (1901) : The Manufacture and production of celluloid-like substances and their use in industry*; 1902 September 11. 3 p.

Describes technique for manufacture of less-flammable celluloid-like products, replacing nitrocellulose with acetylated derivatives of cellulose.

160. O'Connor, E. *When the movies married the phonograph* IN: Equity; 1929 May: 15-16, 30.

161. Owen, Tom. *Electrical reproduction of acoustically recorded cylinders and discs : part 1* IN: Journal of the Audio Engineering Society; 1983 April; 31(4): 266-275.

Note: Presented at the 70th Convention of the AES (NYC 1981 October 30-November 2); revised 1983 February; 2d part of this, by John Fesler, appeared in the Journal of the Audio Engineering Society (31:9) 1983 September, 674-694.

Illustrated; bibliographic citations.

After presenting a brief background of the recordings made by Lionel S. Mapleson at the Metropolitan Opera, NYC, at the beginning of the 20th century, as well as summarizing the various re-recordings which have been made of them, documents the procedures undertaken at the Rodgers and Hammerstein Archives of Recorded Sound, New York Public Library, to re-record them. Includes description of design of cylinder playback equipment, literature search for relevant information, analysis of the various waxes used in early cylinder recordings and causes of surface deterioration of same, consideration of mold vs. surface wear as a contributing cause of sound deterioration, analysis of the types of groove cuts and cutting parameters (depth, width, sidewall deformation, etc.), selection of stylus, level of recording in

the originals, speed selection for playback, and the actual transfer equipment and procedures used.

162. Pasley, Gilbert. *Some post-production Blue Amberols* IN: **New Amberola Graphic**; 1991; (85): 8-9.
163. Paul, George. *A Brief history of cylinder record cores* IN: **Antique Phonograph Monthly**; 7(1): 3-6.
164. Pengelly, Joe. *The Electrical reproduction of cylinders* IN: **Phonographs & gramophones : A Symposium organised by the Royal Scottish Museum in connection with the exhibition Phonographs and Gramophones and the centenary of the invention of the phonograph by Thomas Alva Edison : Held in the Royal Scottish Museum, Chambers Street, Edinburgh, on Saturday 2nd July 1977. Edinburgh: Royal Scottish Museum, 1977: 57-60.  
NOTE: Bibliographies.**
165. Petersen, Phillip. *The Origin of the I.C.S. language cylinder* IN: **Antique Phonograph Monthly**; 1973 April; 1(4): 3-4.
166. Petras, Fred. *Old-tyme high-tech electronic cylinder system* IN: **Audio**; 1984 May: 66-69.  
Note: Illustrated.  
Describes universal cylinder playback equipment, with interchangeable mandrels for standard and non-standard cylinders developed by Art Shifrin.
167. *Phonograph improvements : G. H. Herrington's method of recording sound vibrations* IN: **Scientific American**; 1892 June 9; (66): 20.
168. Pluck, George; Favia-Artsay, Aida. *Historical records : 4 Twentieth century cylinders* IN: **Hobbies : The Magazine for Collectors**; 1957 December: 30-31 +.  
Note: Illustrated.  
Includes information on four Columbia Twentieth Century Cylinders performed by Anton Van Rooy (# 85062), David Bispham (# 85079 and # 85078), and Alois Burgstaller (# 85077).
169. Plush, S M. *Edison's carbon button transmitter and the speaking phonograph* IN: **Journal of the Franklin Institute**; 1878 April.
170. Prescott, George B. **The Speaking telephone, talking phonograph, and other novelties.** New York: Appleton; 1878.
171. Prescott, George B. **The Speaking telephone, electric light, and other recent electrical inventions.** New York: Appleton; 1879.
172. *Production figures for Edison cylinder records* IN: **Antique Phonograph Monthly**; 1973 December; 1(10): 3.
173. Proudfoot, Christopher. **Collecting phonographs and gramophones.** 1st ed. New York: Mayflower Books; 1980. 120 p. (Christie's International Collectors Series); ISBN: 0831739525.  
Illustrated.
174. Raynard, B. *Record of the meeting on June 6, 1979 : Lecture on horn design* IN: **Hillandale News : City of London Phonograph and Gramophone Society**: 281-282.
175. Read, Oliver; Welch, Walter L. **From tinfoil to stereo : Evolution of the phonograph.** 1st ed. Indianapolis: H.W. Sams; 1959.  
Note: Illustrated. Bibliography.
176. Read, Oliver; Welch, Walter L. **From tinfoil to stereo : Evolution of the phonograph.** 2d ed. Indianapolis: H.W. Sams; 1976.  
Note: Illustrated. Bibliography.
177. Reinhard, Kurt. *Das Berliner Phonogramm-Archiv* IN: **Baessler-Archiv**; 1961; 9: 83-94.  
Cited in Ziegler, Suzanne: From wax cylinders... (Resound 13 January/March 1994) p.5.
178. Reinhart, Mark. *Grand concert : Five inch dialog* IN: **New Amberola Graphic**; 1990 July; (73): 5-7.
179. Reiss, Eric L. **The Complete talking machine : A Guide to the restoration of antique phonographs.** 1st ed. Vestal, NY: Vestal Press; 1986. vii, 184 p.  
Note: Illustrated. Bibliography.

180. Reiss, Eric L. **The Complete talking machine : A Collector's guide to antique phonographs.** 2d ed. Chandler, Ariz: Sonoran Pub.; 1996. xvi, 236 p; ISBN: 1886606080 (pbk.).

Illustrated.

181. Roberts, Helen H; Thompson, Lincoln. **The Re-recording of wax cylinders** IN: Zeitschrift für vergleichende Musikwissenschaft; 1935; 3(3-4): 75-83.

After brief summary of use of cylinder recordings for field recordings and estimation that there are 'some 15,000 wax cylinders' in university collections in the United States, reports on some of problems of deterioration, wear, difficulty at locating and repairing appropriate equipment, work with Edison on amplification, evolution of technology and some of its advantages and disadvantages, and resulting work -funded by Carnegie Corp.- with The Sound Specialties Co. (Waterbury, CT) in developing appropriate equipment for field record (two suitcase-sized units, spring wound drive with dry battery driven amplifier generating electrical recording onto aluminum discs; field monitoring and playback via headphones) and for laboratory playback (foot-switch playback via loudspeaker), and equipment for recording, playing, and rerecording wax cylinders (electrical pickup).

182. Roberts, Helen H; Thompson, Lincoln. **The Re-recording of wax cylinders** IN: Folklore and Folk Music Archivist; 1963 Summer; 6(2): 4-13.

Note: Reprint from *Zeitschrift für vergleichende Musikwissenschaft* (1935)(3/3-4) 75-83.

Bibliographic citations.

After brief summary of use of cylinder recordings for field recordings and estimation that there are 'some 15,000 wax cylinders' in university collections in the United States, reports on some of problems of deterioration, wear, difficulty at locating and repairing appropriate equipment, work with Edison on amplification, evolution of technology and some of its advantages and disadvantages, and resulting work -funded by Carnegie Corp.- with The Sound Specialties Co. (Waterbury, CT) in developing appropriate equipment for field record (two suitcase-sized units, spring wound drive with dry battery driven amplifier generating electrical recording onto aluminum discs; field monitoring and playback via headphones) and for laboratory playback (foot-switch playback via loudspeaker), and equipment for recording, playing, and rerecording wax cylinders (electrical pickup).

183. Rosanoff, Martin André. **Edison in his laboratory** IN: Harper's Magazine; 1932 September: 402-417.

Note: Reprinted in Martin André Rosanoff : *Collected works* (Brooklyn : Galois Institute of Mathematics of Long Island University).

The account of a man hired by Edison to refine wax used in cylinder recordings of his efforts to do so, of Edison's research techniques and procedures, and of life in the Edison experimental labs and discussions with Edison on a wide variety of subjects.

184. Roth, Elizabeth Stacey. **The Care and preservation of sound recordings** IN: Conservation Administration News; 1985 October; 23: 4-5, 24.

Note: Bibliography.

Describes problems of preservation of Lp albums, wax cylinders, and magnetic audio tapes.

185. Royal Scottish Museum; Thomson, Alistair G. **Phonographs & gramophones : A Commemorative catalogue of the exhibition held at the Royal Scottish Museum from 2nd July-2d October 1977 to celebrate the centenary of Thomas Edison's invention of the phonograph : With a foreword by Theodore Edison.** Edinburgh: The Museum; 1977. vii, 24, [32] p; ISBN: 0900733136.

Note: Illustrated.

186. Rust, Brian A L. **Discography of historical records on cylinders and 78s.** Westport, CT: Greenwood Press; 1979 viii, 327 p; ISBN: 0313205612.

187. Schneider, Marius. **Das Phonogramm-Archiv des Museums für Völkerkunde** IN: Archiv für Vergleichende Phonetik; 1938; 1: 41-47.

Cited in Ziegler, Suzanne: *From wax cylinders...* (Resound 13 January/March 1994) p.5.

188. Schwarten, Arnold; Brod, Garry. **Phono-graphics : The Visual paraphernalia of the talking machine.** San Francisco: Chronicle Books; c1993. 119 p.

Note: Chiefly illustrations.

189. Seeger, Anthony. **From the Director : End of cylinder project** IN: Resound; 1985 April; IV(2): 1.

Presents information on completion of project to rerecord the 'nearly seven thousand wax cylinders' and their conservation (reboxing, completion of documentation, production of a catalog, preparation of listening copies).

190. Seeger, Anthony; Spear, Louise. **Archives receives N.S.F. grant** IN: Resound; 1983 October; 2(4): 4.

Reports that the Archives of Traditional Music, Indiana University, has received grant from the National Science Foundation to preserve content of their ca.7,000 cylinders and summarizes their intended work.

191. Seymour, Henry. *Edison discs and Edison cylinders* IN: Sound Wave; 1922 October.

192. Shambarger, Peter. *Cylinder records : An Overview* IN: Journal of the Association for Recorded Sound Collections; 1995 Fall; 26(2): 133-161.

Note: Illustrated; charts; bibliographic citations.

Part of the May 14, 1994, ARSC Technical Committee presentation at the 1993 ARSC Conference.

Summarizes the 40 year history of entertainment cylinder production -longer for business and education use- citing differences in cylinder recordings, information on cylinder record companies and brand names, types of cylinder records (characteristics shared by cylinder records, standard-size cylinders and groove pitch, oversize-cylinder, other cylinder types, business -dictation- and school cylinders), materials (wax vs. celluloid), playback consideration (handling, groove pitch, materials and playback equipment, playing speed), storage conditions, and provides keys to identify the different types of cylinders and to answer the questions most often asked by collectors and archivists. Primary focus is on the most common types of cylinders manufactured in the U.S., with some mention of a few important European cylinder types and manufacturers (most oddities and ultra-rare types of cylinders are beyond scope).

193. Shifrin, Arthur B. *Researching and restoring pioneer talking pictures : The 70th anniversary of the theatrical release of Kinetophone* IN: Journal of the Society of Motion Picture and Television Engineers; 1983 July; 92: 739.

194. Shifrin, Arthur B. *Restoration of Kinetophone sound motion pictures* IN: Journal of the Audio Engineering Society; 1983 November; 31(11): 874+.

Note: Illustrated; bibliographic references.

"Based on presentation made by Mr. Shifrin at New York Section meeting of the AES, May 1983..."

After summarizing research techniques and assistance (or lack of same), gives documented information on dates, inventor, development, naming, making of film and recordings for, operation, and public use and acceptance of the Kinetophone. Concludes with description of author's electronic cylinder playback system and equipment used in and with it, along with problems of sound and picture synchronization.

195. Shifrin, Arthur B. *Time code and Mr. Edison* IN: dB; 1982 December; 16: 30.

196. Shifrin, Arthur B. *The Trouble with Kinetophone* IN: American Cinematographer; 1983 September; 64: 50.

197. Simon, Artur. *The Department of Ethnomusicology at the Museum of Ethnography in Berlin* IN: World of Music; 1990; 2: 113-116.

Cited in Ziegler, Suzanne: From wax cylinders... (Resound 13 January/March 1994) p.5.

198. Simon, Artur. *Hundert Jahre Museum für Völkerkunde Berlin : Musikethnologische Abteilung* IN: Baessler-Archiv; 1973; XXI: 359-375.

199. Simon, Artur. *Old recordings of the Berlin Phonogramm-Archiv returned home* IN: World of Music; 1991; 1: 119.

Cited in Ziegler, Suzanne: From wax cylinders... (Resound 13 January/March 1994) p.5.

200. Smart, James L; Newsom, Jon W. *A Wonderful invention : A Brief history of the phonograph from tinfoil to the Lp.* Washington, D.C.: Library of Congress; 1977.

201. Smolian, Steven. *Cylinder record research* IN: Journal of the Association for Recorded Sound Collections; 1995 Fall; 26(2): 131-132.

Note: Part of the May 14, 1994, ARSC Technical Committee presentation at the 1993 ARSC Conference.

Summarizes the history, preservation, and relative importance of cylinder recordings in sound archives; estimates that there are "at least 300,000 cylinders in the United States, with fewer in Europe..." setting the stage for presentation by Shambarger, Wile, and Klinger.

202. Smolkina, T N. *Razrushenie voskovyh pechatej plesnevymi gribami i metody ih zaschity* IN: Trudy VNIIDAD; 1970; 1: 116-120.

Note: Russian.

Reports on examination of the effects of mold and mildew on the preservation of wax-containing documents, including wax seals and phonograph cylinders whose surfaces had spots resembling a mold film. Identified several species of destructive fungi and reports on various antiseptics used disinfection and of methods for protection.

203. *Sound and film preservation/Conservation bibliography*; 1985 May 4. 2 p.

This bibliography consists of two pages of references regarding the preservation and conservation of sound and film. Topics covered are as follows : discs; cylinders; and magnetic tape. (CIN).

204. *The Speaking phonograph* IN: Frank Leslie's Illustrated Newspaper; 1878 March 30; 1878 April 10.

205. Stickells, Lloyd F. *The Construction of cylinder replay machines* IN: Archiving the audio-visual heritage : A Joint technical symposium : FIAF, FIAT, IASA; 1987 May 20-22; Berlin (West). International Congress Center : Organized by Stiftung Deutsche Kinemathek. Berlin (West): Stiftung Deutsche Kinemathek; 1988: 81-83.

Note: Illustrated.

Reviews two basic ways of rerecording Edison cylinders (acoustically and electrically), citing advantages and shortcomings of each, and describes British National Sound Archives'/British Institute of Recorded Sound's efforts to build a machine for playing cylinders.

206. Stickells, Lloyd F. *Evolution of a new cylinder reproducer* IN: Recorded Sound; 1984 July; (86): 2-4.

After brief summary of cylinder holdings of the British Library's National Sound Archive, gives information on fragility of wax cylinders due to improper handling and storage and to mold growth, continues with statement of methods of transferring cylinders (acoustically or electrically) and pluses of each, provides specifics on cylinder playback and evaluation of same at the NSA. Specifics include data on tracking with a modified Lp arm, use of electric motor instead of clockwork mechanism, causes of wow and flutter, requirements for a cylinder replay device.

207. Storm, William D; Whistler, Kenneth. *Laser reproduction of cylinder sound recording* IN: Institute National de la Communication Audiovisuelle. Dossier de l'audiovisuel; 1986 October; (9): 40-41.

208. *The Story of Edison Bell : Being a succinct history of Edison Bell efforts and activities dating from the invention of the original talking machine down to the year of grace 1924.* Bournemouth: City of London Phonograph & Gramophone Society; 1967. A-P, 28 plates.

Note: Illustrated; portraits; facsimiles.

Reprint of 1924? edition, with new explanatory appendices.

209. Stratton, John. *The Mapleson cylinders* IN: The Record Collector; 1981 July-August.

Note: Photographs.

Provides background information on Mapleson's recording of performers at the Metropolitan Opera and a listing of same.

210. *The Talking phonograph* IN: Scientific American; 1877 December 22; (37): 384.

211. Tewksbury, George E. *A Complete manual of the Edison Phonograph.* New York: United States Phonograph Co; 1897.

Reprinted by G. L. Frow, 1977.

212. Thomas A Edison, Inc. *Making records at home.* Orange, NJ: Thomas A. Edison, Inc.; 1912.

213. Thomas, P. *Edison-o-mate : Edison player by BBC London* IN: Swiss Sound; 1987; (20): 7-8.

214. *Toy phonograph* IN: Scientific American; 1897 April 10; (76): 230.

215. Tritton, Paul. *The Lost voice of Queen Victoria : The Search for the first royal recording.* London: Academy Books; 1991.

216. *Use of the phonograph in early advertising* IN: Antique Phonograph Monthly; 1973 February; 1(2): 1-2.

217. Valet, Gerard. *Le Magasin du phonographe : Catalogue de l'exposition "100 ans de phonographe", du 2 decembre 1977 au 8 janvier 1978 : Organisee au Passage 44 pour le Credit Communal de Belgique par Gerard Valet.* [Bruxelles]: Credit communal de Belgique; [1977]. 88 p.

Note: Illustrated.

AVAILABLE FROM bd Pacjeco 44, Bruxelles.

218. Vanderbilt, Byron Michael. *Materials for the phonograph (Chapter 4)--* IN: Vanderbilt, Byron Michael. *Thomas Edison : Chemist.* Washington, D.C.: American Chemical Society; 1971: 98-137.

Note: Bibliographic references; illustrated.

Part of a general presentation on Edison as a chemist which presents background information on the subject along with chemical technology understandable by "those

with little training or experience in chemistry." Includes information on manufacturing processes for wax and celluloid cylinders and Diamond Discs, along with chemical analysis and formulae, problems and solutions found by Edison, and work of others in the field (Bell & Tainter; Berliner; Columbia; et al.).

219. Viall, Ethan. *Making Edison phonographs* IN: American Machinist; 1911; (36): 486-927.

220. Waffan, Leslie. *Sound recordings* IN: Cohen-Strayner, Barbara; Kueppers, Brigitte. Preserving America's performing arts : Papers from the conference. Preservation management for performing arts collection; 1982 April 28-May 1; Washington, D.C. New York: Theater Library Association; 1985. 61-63.

Gives summary history of sound recording technology from 1877 to the present and preservation needs of sound recordings. Concludes that fundamental is a stable environment, cleanliness, and good upkeep of playing equipment. Reformatting is inevitable; advocates splice-free, low noise, high-output, 1,5 ml. Polyester audio magnetic audio tape. Recommended priorities for reformatting are cylinders, acetate discs, acetate-base open reel audio tapes, audio cassettes, 45 rpm discs, 78 rpm shellac discs, and vinyl Lps.

221. Walcott, Ronald. *American Folklife Center project : The Federal Cylinder Project* IN: Phonographic Bulletin; 1982; (33): 13-22.

222. Walcott, Ronald. *Catalog and archive resources at the Library of Congress* IN: University of Hawaii Manoa. Music Department Colloquium.

1981 February 19.

223. Walcott, Ronald. *MARC coding manual for instantaneous sound cylinders*. [typescript] ed. Washington: Library of Congress; 1980.

Bloomington  
Indiana University Press.

224. Walcott, Ronald. *Product, personality, institution : The Cylinder as nexus* IN: Society for Ethnomusicology. Annual Meeting; 1980 November 23; Bloomington, Indiana.

225. Walcott, Ronald; Jabbour, Alan. *American Folklife Center project : The Federal Cylinder Project* IN: Phonographic Bulletin; 1982 July; (33): 13-22.

Following introduction giving some background information on the effort and its scope outlining the three

principal aspects of the project (physical transfer of the cylinder recordings onto magnetic tape, location of contextual documentation of the recording and cataloging of them, and dissemination of the recordings to the public and to cultural groups for whom these recordings comprise their cultural legacy), documents the work of the project.

226. Walsh, 'Jim'. *An Inexpensive method of storing cylinder records* IN: Hobbies : The Magazine for Collectors; 1950 November: 22.

Recommends using wooden crates for standard sized soft drinks for storage of cylinders.

227. Waltrip, Bob. *The Edison diamond stylus* IN: In the Groove : Michigan Antique Phonograph Society; 1991 March: 6-7.

After general information on characteristics of diamonds and their strength, comments on diamonds used by Edison as styli, manner in which they were produced, potential hazards to them (the diamond styli) from playing chipped or badly scratched recording, and resulting damage to recordings. Suggests method for testing to see if the stylus is chipped or damaged. Concludes with information on normal wear and tear of diamond styli from use and with recommendation that both recordings and styli should be checked and cleaned regularly.

228. Webster, A G. *Acoustical impedance and the theory of horns and the phonograph* IN: American Physical Society; 1919 May.

229. Weintraub, Boris. *American history on wax* IN: Washington Star. Washington, D.C.; 1980 July 19.

230. Welch, Walter L. *Edison and his contribution to the record industry* IN: Journal of the Audio Engineering Society; 1977 October-November; 25(10-11): 660-665.

231. Welch, Walter L. *Preservation and restoration of authenticity in sound recordings* IN: Library Trends; 1972 July; 21(1).

232. Welch, Walter L; Burt, Leah Brodbeck Stenzel. *From tinfoil to stereo : The Acoustic years of the recording industry : 1877-1929*. [3d] ed. Gainesville, FL: University Press of Florida; c1994. xii, 212 p.

Note: Revised edition of: From tin foil to stereo / Oliver Read and Walter Welch (1976).

Illustrated; bibliography.

A history of sound recording from 1877 to 1929.

233. *Who made the first spring-wind phonographs in America?* IN: **Antique Phonograph Monthly**; 1973 January; 1(1): 1-3.

234. Wile, Raymond R. *Adventures in Edisonia* IN: **Journal of the Association for Recorded Sound Collections**; 1971; 3(2/3): 7-23.

235. Wile, Raymond R. *Cylinder record materials* IN: **Journal of the Association for Recorded Sound Collections**; 1995 Fall; 26(2): 162-171.

Note: Includes bibliographic citations.

Part of the May 14, 1994, ARSC Technical Committee presentation at the 1993 ARSC Conference.

Gives summary information on some of the historical cylinder formats (tin-foil recordings, Bell-Tainter Cylinders, white wax cylinders), formulas for a number of wax cylinders (metallic soaps, brown wax, moulded master records, Edison Gold-Moulded Records, hard-wax for Edison Amberol Records, for bluing Amberols), concluding with observations and comments on preservation of cylinders.

236. Wile, Raymond R. *Edison royal purple grand opera cylinder records 29,000 series* IN: **Antique Phonograph Monthly**; 1973 April; 1(4): 5.

237. Wile, Raymond R. *Edison cylinder 'specs'* IN: **Antique Phonograph Monthly**; 1974; 2(2): 3.

238. Wile, Raymond R. *Edison Blue Amberol 28100 series* IN: **New Amberola Graphic**; 1990 October; (74): 3-13.

239. Wile, Raymond R. *The Fate of the Edison Phonograph Toy Manufacturing Company* [manuscript]; 1984-1985.

240. Wile, Raymond R. *The Wonder of the age : The Invention of the phonograph* IN: **Phonographs & gramophones : A Symposium organised by the Royal Scottish Museum in connection with the exhibition Phonographs and Gramophones and the centenary of the invention of the phonograph by Thomas Alva Edison : Held in the Royal Scottish Museum, Chambers Street, Edinburgh, on Saturday 2nd July 1977. Edinburgh: Royal Scottish Museum, 1977: 9-48.**

241. Williams, R Scott. *Display and storage of museum objects containing cellulose nitrate* IN: **CCI Notes**; 1994; 15(3): 4 p.

Note: Illustrated.

Presents how cellulose nitrate -also known as nitrocellulose- has been used since the mid-1800s (photography since the 1840s, explosives since 1845, moulded plastic objects since about 1870, etc.) under various trade names (celluloid, collodion, gun cotton, pyralin, pyroxylin, and xylonite). After listing some of the uses of cellulose nitrate in library, archive and museum collections -such as toys and dolls, photographic film, eyeglass frames, protective and decorative lacquers, sound recordings, etc.- includes information on deterioration of same.

242. *Wonderful invention : Speech capable of indefinite repetition from automatic records* IN: **Scientific American**; 1877 November 17; (37).

243. Zahn, Wilfried. *About the reproduction problems of Edison cylinders* IN: **Phonographic Bulletin**; 1978 July; (21).

244. Ziegler, Suzanne. *Auf der Suche nach dem verlorenen Klang : Zur Geschichte und Erschliessung der historischen Tondokumente des Berliner Phonogramm-Archivs* IN: **Jahrbuch Preussischer Kulturbesitz**; 1994; XXI: 153-167.

245. Ziegler, Suzanne. *The Collection of wax cylinder recordings in the Department for Ethnomusicology, Museum für Völkerkunde, Berlin (with special emphasis on collections of European folk music)* IN: **Proceedings. IX European Seminar**; 1993 September; Barcelona; 1994 January/March; XIII(1/2): 1-5.

246. Ziegler, Suzanne. *Das Ehemalige Berliner Phonogramm Archiv : Eine Wiederentdeckung* IN: **Studien zur Musikgeschichte : Eine Festschrift für Ludwig Finscher**: Bärenreiter: 766-772.

247. Ziegler, Suzanne. *Die Walzensammlungen des Ehemaligen Berliner Phonogramm-Archivs : Erste Bestandsaufnahme nach der Rückkehr der Sammlungen 1991* IN: **Baessler-Archiv : Beiträge zur Völkerkunde**; 1995; LXVIII(XLIII)(1): 1-34.

248. Ziegler, Suzanne. *Frühe Aufnahmen traditioneller Musik aus dem Kaukasus im ehemaligen Berliner Phonogramm Archiv* **IN:** Niemöller, Klaus Wolfgang; Pätzold, Uew; Kyo-chul, Chung, editors. **Lux Oriente : Begegnungen der Kulturen in der Musikforschung : Festschrift Robert Günther zum 65. Geburtstag.** Köln: Gustav Bosse Verlag: 429-440. (Kölner Beiträge zur Musikforschung; v. KBMf 188).

249. Ziegler, Suzanne; Bucknum, Mary Russell. *From wax cylinders to digital storage : The Berlin Phonogramm Archiv today* **IN: Resound;** 1994 January/March; XIII(1/2): 1-5; ISSN: 0749-2472.

Note: Photographs; bibliographic references.

After an introduction which includes a brief description of the relationship of the Berlin Phonogramm Archiv and the Archives of Traditional Music, the method that was used to select the cylinders to me made by the Archiv, provides information on the return of around 95% of the holdings of the Archiv in 1991, a brief history of the Archiv from 1900 summarizing its holdings ('more than 13,000 by the late 1930s'), evaluates the condition of the collection, describes the holdings, and sets out goals for the future, including hopes to record the cylinders onto digital tape.

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