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Henry IX

This is the first time I've edited a Newsletter. The pleasant thing about it, is that being acting editor, I can please myself what to include; I'm even immune from Hofstetter, the President, (and Editor) of the Society, as he is somewhere across the Ocean. Now, having this newly found "power", I can take the opportunity to say a few words about the President! Indeed, with your permission, gentle reader, I'm dedicating this issue of the Newsletter to the President, Dr. Henry W. Hofstetter. The reason for this is (a) that if he were the editor his modesty would forbid it, and he wouldn't think of it (b) this is a very opportune time, historically, to pay some sort of tribute to him. As you will no doubt have read in the optometric journals, as from June, 1970, Hofstetter stepped down from being Director of the Division of Optometry, Indiana University, in order to devote "full time to teaching, research and writing" as a change from about a quarter of a century devoted primarily to administration. He of course remains on the faculty as Professor. I shall not review his curriculum vitae (the publications of which alone run to 14 pages) but will merely cite some aspects of his career. H. W. H. was born in Windsor, Ashtabula County, Ohio, September 10, 1914. He was reared on a farm and attended Western Reserve, & Kent State University. He received his Optometry training at The Ohio State University (B. Sc., 1939) and proceeded to M. Sc. in Physiological Optics (1940), being recipient of the first Ph. D. in Physiological Optics (1942). As a somewhat cautious, persevering and "slow" type of academic, it took him all of six years before he had climbed the academic professorial rungs at Ohio State and became Dean at Los Angeles College! He remained at L. A., for three years, and was then appointed Professor of Optometry and Director of Indiana University's newly created Division of Optometry. He has been a member, at one time or another, of over forty organizations, ranging from Optometric Societies to the American Society of Human Genetics. A little delving revealed that he has received several honorary doctorates, and numerous other honors and awards. A brief glance through his file (I did say he was out of the country and hardly in a position to prevent me!!) revealed that his lectures, chairmanships, presidencies, literally go into the hundreds. His publications (201 to date) vary from editorials, book reviews, papers, to monographs and books, including a dictionary. I am aware, that as an historian, I ought to be more specific and detailed. But why should I be, as editor! It's purely an historical tribute ending an era, and the last thing I want is for it to read like an obituary. It is not a case of "The King is dead; Long live the King". The truth is Henry the Hofstetter is very much alive, and we wish him good luck in his future teaching, research and writing.

History is to-day. . . Hofstetter's eminently worthy successor is Dr. Gordon G. Heath. His early Optometric student days also stem

back to Los Angeles, under Hofstetter's reign. Los Angeles, followed by Berkeley, and then Indiana. Los Angeles to Indiana, sounds like a familiar trail. . . Perhaps we may conclude with an almost analogous historical poser: What Professor, author of a book of optics, upon his resignation was succeeded by his former pupil, subsequently author of a great contribution to optics and vision? The answer goes back some 300 years. Isaac Barrow (1630-1677), author of Optical Lectures (1674), was followed by the great Isaac Newton (1642-1727), author of Opticks (1704). Both were Professors of Mathematics at Cambridge University. So, history can repeat itself. . .

Bookshelf

The latest historical book relating to Optometry, is James E. Leboensohn (editor), An Anthology of Ophthalmic Classics, (Williams & Wilkins Co., 407 p., \$16.00).

Nominations, please

Unless I'm mistaken, it is nomination time. It is approaching the end of the first term of office for Maria Dablemont, our Secretary-Treasurer. Maria has done a splendid job, and, of course, I for one hope she is re-nominated to continue the good work. She gets my vote.

Richard Liebreich and the Earliest Fundus Atlas

Probably the first fundus atlas was that produced by Richard Liebreich, in 1863, although the first published illustration of the fundus appeared ten years earlier. Twelve years had elapsed since von Helmholtz's construction of the ophthalmoscope (1851) before the atlas made its appearance. It seems incredible after looking through the atlas, that comparatively so short a time prior to its publication, the interior pathology of the eye had remained a great unknown. Containing the vivid portrayal and description of conditions such as glaucoma, retinitis pigmentosa, retinal detachment, hemorrhages, the optic disc in myopia, the appearance of the atlas must have seemed like an exciting new picture book! Within about twenty years the book had passed through several editions, with subsequent editions in English, French, and Spanish, the original (first) edition having been published in both the French and German languages.

Richard Liebreich was born 30 June, 1830, at Königsberg. After completing his medical studies at Berlin and Halle, he proceeded to post graduate work with Brücke in Berlin and then with Donders at Utrecht. He was the first assistant in von Graefe's Clinic, his instructor in the art of ophthalmoscopy having been von Helmholtz. After practicing for several years in Berlin and Paris, and for a period of seven years as ophthalmic surgeon at St. Thomas's Hospital, London, he returned to Paris, where he remained for the rest of his life.

How sophisticated, in retrospect, the modern fundus atlases must have appeared to him, towards the end of his life (1917), with their greater accuracy and detail! Leibreich's creativity extended to

other aspects of ophthalmology, for example, instrumentation and surgical technique, to say nothing of his non-medical talents. For ophthalmology was only one facet of his various accomplishments. His obituary notice in the British Medical Journal, describes him as having been a 'distinguished ophthalmologist, painter, and sculptor. . .' and we could just add linguist.

It was the fine arts that finally claimed his complete attention in his later years. Apart from his paintings and sculptures, he was especially interested in the correlation of painting techniques and peculiarities of coloring, in paintings, by the various great masters, to the anomalies and changes in their visual apparatus. One of his detailed studies was embodied in an account of the works of Turner and Mulready.

In 1917, he could sincerely look back on an active and full life, having duly distinguished himself as ophthalmologist, painter and sculptor. . . He died in Paris at the age of eighty-seven.

The 1st Honorary Member

Miss Margaret Mitchell, M. A., F. B. O. A., has been elected as the first Honorary Member of the Society. Miss Mitchell, Librarian and Curator of the famous British Optical Association Library and Museum, in London, is also the Assistant Editor of The Ophthalmic Optician. I can report to our members that she was sincerely delighted "at the great honour." Miss Mitchell has had a long and distinguished career with the B. O. A., and has also found time to write the occasional historical paper, in addition to having edited the British Optical Association Library and Museum Catalogues.

A 15th Century Eye Cure

Lynn Thorndike, in his Science and Thought in the 15th Century (1929) recounts Bistachius' eye treatment, as follows:--

"To cure films in the eyes of beasts, grind glass thoroughly and sift it well with a sieve and put it in the beasts' eyes, and within five days they will be cured."

Great Men of Vision: 1970 Anniversaries

Bernard S. Albinus (1697-1770). His claim to our attention is in connection with the mechanism of accommodation; he proposed that changes in corneal curvature were responsible.

Richard Banister (1570-1626), an itinerant English oculist, who was one of the first people to recognize absolute Glaucoma. He was the author of an historically important Breviary.

Albrecht von Graefe (1828-1870), was the eminent Berlin ophthalmic surgeon.

A. Tschermak (1870-?) was Professor of physiology, Prague, and is remembered particularly for his researches on binocular vision.

The Monocle

An American is supposed to have commented that "Some ailments necessitate the wearing of a monocle. Being an Englishman is one of them." I wonder if one of our readers could let the editor know who was the American that originated the comment? The editor is an Englishman, who does not wear a monocle, but admits to having fitted several monocles while in Optometric practice. They were all fitted within the short period of some 18 months, the reason being that at this particular time, he was in practice near a famous military barracks, and the young officers found such plano lenses indispensable to complete their sartorial elegance, even if it did nothing for their visual acuity. The editor also remembers the occasion when one of his patients ordering a new cord for his monocle and although in person, he requested that it be gift-wrapped and "delivered" to him. The day after the patient received the cord, he returned to have the cord "fitted" to the monocle. I would be interested to know from members of the Society, what they feel would have been their professional fee for threading the cord through the monocle, bearing in mind "the messing about" that had ensued in sending the cord etc. The editor would like to hear what the members consider (a) a reasonable fee, if any, and (b) an exorbitant fee.

Contributions, please

Since the President's opening paragraph of the last Newsletter mentioned that someone else would be editor, correspondence from members has ceased! Intentional or not, your temporary editor would request that you not remain silent until the return of the President and Editor. After all, I do have to have 'news' for issues 4 and 5!

J. R. Levene, Editor

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Bibliography
of the
History of Eyeglasses

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The bibliography does not claim to be complete, but it does aim to list the main publications on the subject.

It is a pleasure to thank my research assistant, Mrs. LeaAnne Bernstein, for her great help.

J. R. L.

- Agarwal, R. K. Further research on the origin of spectacles, Optician, 149, (March 12, 1965), 244-246.
- Ahlstrom, O. New theory on the origin of spectacles, Optician, 148, (November 13, 1964), 474-475.
- Ahlstrom, O. "The Art or Mistry": English Spectacle Makers of the 17th Century, Optician, 129, (March 18, 1955), 216-219.
- Glasogon, Stockholm, 1947.
- Albertotti, G. Moticelle intorno agli occhiali (occhiali dipinto), Padova, 1913. Also in Ann. di ottal., Pavia, 1913, xlii, 121-127.
- Note critiche e bibliografiche riguardanti la storia degli occhiali, Ann. di ottal., xlii, Pavia, (1914), 328-350.
- Note sugli occhiali, Atti. Accad., 30, Padova, (1913-14), 311.
- Storia deglia Occhiali, St. Petersburg, 1914.
- Ulteriori ricerche e studi intorno alla storia degli occhiali. Società italiana di oftalmologia, Atti del Congresso 1924, Rome, (1925).
- Zincotypia d'un portrait avec lunettes peint par Thomas de Môdene en 1552, présenté au Xe Congrès international d'ophthalmologie, Janus, IX, Amst., (1904), 612-615.
- Andrew, L. Some notes on the history of spectacles, Transactions of the Lancashire and Cheshire antiquarian society, 42, (1925), 4.
- Anon. The history of eyeglasses, Policlinico, 67, Sez. prat., (It.), (1960), 1425-1426.
- Anon. Invention of eyeglasses, Varia, Minerva Med., Tor., 48, (It.), (1957), 1648-1653.
- Ayscough, J. A Short Account of the Eye and Nature of Vision, London, 1755.
- A Short Account of the Nature and Use of Spectacles, in which is Recommended a Kind of Glass for Spectacles Preferable to any Hitherto Made Use of for that Purpose, London, 1750.

- Barck, C. The History of Spectacles, Chicago, 1907.
- Barduzzi, D. The History of Spectacles, Optician, 139, (May 13, 1960), 457-463.
- Barduzzi, D. Salvino degli Armati non fur l'inventore degli occhiali, Riv. Stor. crit. Sci. Med. e nat., Silna, 12, (1921), 29-32.
- Barnett, A. Spectacles Depicted by Ancient Artists, Optician, 104, (1942), 284-285.
- Baudouin, M. Saint Jérôme et son binocle, Chron. med., xxiv, Par., (1917), 219.
- Beckman, L. The invention of Spectacles, Opt. J., 1, 1895-96, 126.
- Blew, C. L. The origin and history of ophthalmic lenses and spectacles, Diplomat, 14, (1942), 98-101.
- Bock, E. Die Brille und ihre Geschichte, Vienna, 1903.
- Boegehold, H. & Hartinger, H. Das Brillenglas als optisches Instrument, Berlin, 1934.
- Boudon, P. L'Usage des Lunettes, Castres, 1682.
- Bourgeois, A. Saint Jérôme et son binocle, Chron. méd. Par., xxv, (1918), 57-60.
- Bourgeois, A. Recherches historique sur l'origine des lunettes, Tran. Acad. nat. Reims, (1903), 113.
- Caesemaker, F. E. de Les tapisseries de la cathédrale de Reims et les anachronisms dans l'histoire des lunettes, Chron. méd. Par., xxiv, (1917), 35-47.
- Caesemaker, F. E. de Les besicles de nos ancêtres, Paris, 1923.
- Carbonelli, G. Quel est l'inventein des lunettes?, Chron. med. Par., 30 (1923), 195-199.
- Carbonelli, G. Aenmerkingen over de brillen en dezelve gebruyk, Ghent, 1841.
- Cheinisse, L. Documenti figurati per la storia degli occhiali, Rassegna di clin. terap., xix, Roma, (1920), 61-66.
- Cheinisse, L. Quelques documents artistiques sur les lunettes, Presse med., xxxii, Par., (1924), 1319-1321.
- Chevallier, J. G. A. Le Conservateur de la Vue. Contenant en outre l'Exposition de l'Art de Fabriquer les Verres de Lunettes, et de Microscopes. . . le Catalogue General des Instruments qui

se Fabriquent et se Vendent chez l'Auteur, avec leur
Prix, Paris, 1812.

- Chevalier, C. Manuel Des Myopes, Paris, 1941.
- Cirincione, G. L'invenzione degli occhiali e gloria italiana, Ann.
ottalm., 55, (1927), 930-932.
- Corson, R. Fashions in Eyeglasses from the 14th century to the
present day, London, 1967.
- Court, T. H.
&
Rohr, M. von On the Development of Spectacles in London from the End
of the Seventeenth Century, Trans. opt. Soc., 30, (1928-
29), 1-21.
- Crookes, W. The preparation of Eye Preserving Glass for Spectacles,
Philos. Trans., 214, (1914), 1-25; Chem. News, 109,
(1914), 265-267, 270-280, 289-291; J. Soc. Chem. Ind.,
Lond., 33, (1914), 646; J. Soc. Glass Tech., 7, (1923),
6-7.
- Danjon, A.
&
Couder, A. Lunettes et Telescopes. Theorie, Conditions d'Emploi,
Description, Reglage, Revue d'Optique, Paris, (1935).
- Daca de Valdes, B. Uso de los Antoios para todo genero de Vistas: En que
se enseña a conocer los Grados que a cada unole faltan
de su Vista, y los que tienen quales. . . Por el I. Benito
Daca de Valdes, Notario de el Santo oficio de la Ciuda
de Sevilla. Dedicado a nuestra Senora de la Fuensanta
de las Ciudad de Cordova, Seville, 1623.
- Del Guerra, G. Alessandro della inventore o primo preparatore di occhiali,
Riv. Stor. crit. Sci. Med. nat., 24, (1933).
- Del Lungo Chi l'inventore degli occhiali?, Bologna, 1921.
- De Waard, C. Die uitvinding der verrekijkers, The Hague, 1906.
- Doesschate, G. Some historical notes on spectacles and on beryllus,
Brit. J. Ophth., 30, (1946), 660-664.
- Dunscombe, M. W. Spectacles and Beryllus, London, 1946.
- Eisenhart, M. H.
&
Nelson, E. W. On the Evolution of Eyeglasses and Spectacles, Trans.
opt. Soc., 13, (1911-13), 115-123.
- Development and manufacture of optical glass in America,
Sci. Mon., 50, (1940), 323-334.

- Erggelet, H. Brillenlehre. "Kurzes Handbuch der Ophthalmologie", Berlin, 1932.
- Esser, A. A Curious Example of Pseudo-Spectacles, Klin. Monatsbl. Augenh., 133, (September, 1958), 419-423.
- Farrell, G. Snellen and the E Chart, Sight Saving Rev., 28, (Summer, 1958), 96-99.
- Feldhaus, F. M. Taucherbrillen und andere Brillen bei Leonardo da Vinci (umisoo), Ztschr. f. ophth. Optik, 1, (1913), 148-151.
- Flick, C. S. A Gross of Green Spectacles, London, 1951.
- The Oxford--An Historical Survey, Optical Journal-Review, LXXXIII, (September 15, 1936), 22-23; (October 1, 1936), 19, 30; (October 15, 1936), 30-32.
- Spectacles as Badges of Rank and Learning, Vision, 3, (1949), 35-36.
- Fukushima, G. On presumably the oldest eyeglasses in Japan, J. Clin. Ophth., Tokyo, 16, (1962), 730-732.
- Gasson, W. The Florentine Legend, Ophthalmic Optician, 9, (September 6, 1969), 924-926, 933-935.
- Glancy, A. E. On the history of ophthalmic lenses, Am. J. Physiol. Optics, 6, (1925), 393-402.
- Glaze, F. W. History of optical glass production in the United States, Am. Ceramic Soc. Bull., 32, (1953), 242-247, 281-284, 313-317.
- Golesceano, C. Contribution à l'histoire des lunettes, Clin. prat. méd-chir. de path., x, Paris, (1914), 25, 49; 10, (1914), 28.
- Gordon, B. L. A short history of spectacles, J. med. Soc., 48, (1951), 5.
- Greeff, R. Bruchstücke zur Geschichte der Brille, Klin. Monatsbl. f. Augenh., xv, (1913), 37, 221.
- Daza de Valdes: Uso de los Antojos, Zfo0, 6, (1918), 97-104.
- Der Beril des mittelhochdeutschen Dichters Albrecht (1270), Zfo0, 11, (1923), 66-67.
- Die Briefe des Francesco Redi über die Erfindung der Brillen, Zfo0, 6, (1918), 1-11.
- Der vergrossernde Krystale des Konrad von Wurzburg (c. 1275), Zfo0, x1, (1923), 98-101.

*For abbreviations, see page 16.

Die Anfange der eigentlichen Brillen, ZfoO, i, (1913), 11-17.

Die Erfindung der Augenglaser. Kulturgeschichtliche Darstellung nach urkundlichen Quellen, Berlin, 1921.

Die historische Entwicklung der Brille; eine Auleitung zum Verstandnis der Brillenhaus stellung in dem Heidelberg Museum, Ber. u. d. Versammel. d. ophth. Gesellsch., (Heidelb.), Wiesb., xxix, (1913), 419-451.

Die Meisterbrillen von Nurnberg, ZfoO, 2, (1914/15), 7-15.

Die Nietbrille, DOW, 4, (1919), Heft 1.

Die veglia des Carlo Dati über die Erfindung der Brillen, ZfoO, v, Berlin, (1917), 65-77.

D. M. Manni: Degli occhiali da naso. Ueber die Nasenbrillen (1738), ZfoO, vii, Berlin, (1919), 1-10.

Ein interessanter Anachronismus, das Jesuskind mit der Brille, ZfoO, 1, (1913/14), Heft 3.

Ein Weiterer Fund historischer alter Brillen, Arch. f. Augenh., lxxii, Wiesb., (1912), 206-212.

Eine Brille von vor 1500, ZfoO, 1, (1913/14), Heft 2.

Eine Falschung ans der Geschichte der Brille, ZfoO, ix, Berlin, (1921), 9-12.

Eine venetianische Brillenmacherordnung aus den Jahren 1288 bis 1317, DOW, 8, (1922), Heft 32-34.

Eine zweite venetianische Brillenmacherordnung vom Jahre 1319-1330, DOW, 8, (1922), Heft 43-50.

Fruhe Sehhilfen (bril, glasz, parillen), ZfoO, 12, (1924), 1-2.

Kritische Betrachtungen über Funde von Brillenglasern und Luppen ans dem fruhen Altertum, ZfoO, iv, Berlin, (1916), 142-146.

Kurze Geschichte der Brillen und des Optikerhandwerks, Weimar, 1938.

Lehrbuch der Formen und Fassungen der Augenglaser und ihrer Verwendung in der Praxis, Jena. Staatl. Optikerschule, 1925.

Nich eine daterie Meisterbrille, ZfoO, ix, Berlin, (1921), 97.

Nikolaus von Cusas Buch "De beryllo.", ZfoO, v, Berlin, (1917), 42-44.

Spiegel und Augenspiegel zum Lesen. Ein Beitrag zur ältesten Brillengeschichte, Ztschr. f. Augenh., lii, Berlin, (1924), 311-320.

Grossmann, T. Rivet glasses on a grotesque helmet of Henry VIII, 1511, Klin. Mbl. Augenhk., 129, (1956), 559-561.

Guadet, G. Le plus Ancien Portrait Connue de Personnage Portant Lunettes (1352), Rev. d'Optique, 3, (1924), 105; J. Soc. Glass Tech., 8, (1924), Abs. 114.

Guerra, C. T. Benito Daza de Valdes--a seventeenth century optometrist, J. Am. Opt. Ass., 32, (February, 1961), 541-545.

Gunther, R. T. Early Science in Oxford, 1, Oxford, 1923, 271-272.

Hallauer, O. Die Brille und ihre Geschichte, Int. Congr. Ophthal., Lausanne, 1915.

Hardy, W. E. An outline history of British spectacle making from 1629 onwards, Opt., 151, (1966), 677-684.

Haynes, C. K. Spectacles--Legendary and Historical, A paper delivered May 18, 1931, before the New York-Pennsylvania Academy of Optometry, Am. J. of Opt., 9, (March, 1932), 8-26.

Henker, O. Intro. to the Theory of Spectacles, Trans. by R. Kanthack, London, 1924.

Bericht des Ausschusses zur Schaffung von Richmassen fur Brillenglaser und Brillenglasfassungen, Dtsch. Mech. Ztg., (1917), 131; J. Soc. Glass Tech., 2, (1918), Abs. 159.

Heymann, Mme A. Lunettes et Lorgnettes de jadis, Paris, 1911.

Hill, E. Some historical data concerning glasses, Ophthal. Rec., 23, Chicago, (1914), 504-515.

Eyeglasses and spectacles, History of. American Encyclopedia of Ophthalmology, 7, Chicago, (1915), 4894-4953.

Horner, F. Ueber Brillen aus alter und neuer Zeit, Zurich, 1885. Reprinted from "Neujahrsblatt auf das Jahr 1885 zum besten des Waisenhauses in Zurich".

Hubner, W. Ueber die Brille, Reichsmed Anz., 31, (1906), 264.

Janson, P. From Spectacle to Contact Lens, Materia med. Nordmark, 2, (1957), 139-142.

- Jones, W. Spectacle-Glasses, London, 1804.
- Kessler, H. Eine alte Linsen-Schleifbank und die zugehörigen Werkzeuge, Deut. Opt. Wochenschr., 11, (1925), 767-9, 771-2.
- Kirsch, H. Goethe's attitude towards glasses, Klin. Monatsb. Augenh., 115, (1949), 109-111.
- Kitchiner, W. Practical Observations on Telescopes, Opera-Glasses and Spectacles. "Ne Damnet quae non Intellegunt.", London, 1818.
- Kloth, H. Glasses from China, ZfoO, 30, (1942), 99-106.
- Landolt, M. Qui fut l'inventeur des lunettes?, L'Hygiène, 3, Paris, (August, 1912), 12-14.
- Landsberg, C. Zur Geschichte der Erfindung der Brille, ZenZtg. Opt. Mech., 11, (1890).
- Laufer, B. Zur Geschichte der Brille, Mitte z. Gesch. d. Med. v. Naturw., Hamb., vi, (1907), 379-385.
- Lebensohn, J. E. Benjamin Franklin--Bifocal Spectacles, Classics of Ophthalmology, Survey of Ophthalmology, 4, (1959), 683-686.
- Lerebours Instruction Sur La Maniere De Nettoyer Les Verres De Lunettes, Paris, 1805.
- Libaude et Bongard de Roquigny Lunettes Achromatiques, Paris, 1775.
- Lloyd, R. I. History of Eyeglasses, New York, 1942.
- Long, C. A. History of Eyeglasses, Guildcraft, 16, (1942), 34-50.
- MacCallan, A. F. Spectacles: When to Wear and How to Use Them, London, 1855.
- Magne, M. Lunettes, Paris, 1851.
- Manni, D. M. Degli Occhiali da Naso Inventati da Salvino Armati, Gentiluomo Fiorentino, Firenze, 1738.
- Manzini, C. A. L'occhiale all'occhio, Bologna, 1660.

- Martin, B. An Essay on Visual Glasses, Vulgarly Called Spectacles, London, 1756.
- Meli, R. Notizia di un busto di profeta, con gli occhiali, scolpito in legro verso il 1480, conservato nel Museo nazionale di Monaco in Baviera, Riv. di Storia crit. O. Sc. med. e nat., ix, Falnza, (1918), 430-444.
- Monneret, J. &
Vinay, L. A. Verres et Lunetterie. Etude Technique et Pratique, Besancon and Morez, 1911.
- Mueller, K. The Eyeglasses of the Elector Augustus of Saxony (1526-1585), Klin. Mbl. Augenheilk., 137, (1960), 104-7.
- Muller, C. Das Original der Regensburger Brillenmacherordnung, ZfoO, ix, Berlin, (1921), 129.
- Nurnberger Brillenmacherordnungen und Ratserlasse, DOW, (1921), 874-877, 895-897, 915-917.
- Nicolardot, P. Les Premicus verres d'optique, Le Verre, 2, (1922), 29-32.
- Neuburger, S. Die Regensburger Brillenmacherordnung, Janus, 9, (1904), 94-102.
- Oliver, G. H. The History of the Invention and Discovery of Spectacles, London, 1912.
- Oppenheimer, E. H. Die Erfindung der Brillen, ZenZtg. Opt. Mech., 1908.
- Ovio, G. Sull' ingrandimento degli occhiali (a proposito di "El libro del Lie. B. Daza de Valde's Uso de los antojos y comentarios a proposito del mismo por el doctor Manuel Marquez"), Ann. di ottal. e. clin. ocul., lii, Roma, (1924), 352-360.
- Papini, C. Chi la inventato gli occhiali?, Arte e Storia, 39, (1920), 120-121.
- Pansier, P. Histoire des Lunettes, Paris, 1901.
- Parliament, Acts of (London) An Act for granting to H. M. Certain Duties on Glass Imported and for altering the mode of charging the duties on glass made in Great Britain, London, 1787.
- Pergens, E. Die Geschichte der stenopaischen Brille, Zwnzg. Abhandl. z. Gesch. d. Med. Festschr. . . Baas., Hamb. U. Leipz., (1908), 130-150.
- Ueber alte Brillen, ZfoO, i, Berlin, (1913-14), 172-175.

- Petella, G. Sull' invenzione degli occhiali, Ann. Med. nav. Colon., 7, (1901), 1, 825.
- Chi l'inventore degli occhiali?, Ann. Med. nav. Colon., 28, (1922), 2.
- Peters, A. Altere Urkunden zur Brillengeschichte, ZfoO, xii, Berlin, (1924), 47, 107.
- Pichler, A. Beitrage zur Brillengeschichte aus Karnten, ZfoO, 8, (1920), 39-42.
- Pflugk, A. von Aphasmatische und Kleine Brillenglaser, Germany, 1936.
- Beitrage zur Geschichte der Brille aus alten Abbildungen, ZfoO, 14, (1926), 138-45.
- Beitrage zur Geschichte der Brille, ZfoO, 14, (1927), 138.
- Der biblische Moses mit Brille, DOW, 5, (1920), Heft 43-44.
- Die Meisterzeichen der Nurnberger Brillenmacher, Arch. Augenk., 91, (1922), 341-360.
- Die Nurnberger Brillenmacher am Ausgang des 18. Jahrhunderts, Arch. f. Augenh., Wiesb., lxxii, (1913), 162-164.
- Die Ordnungen der Nurnberger Brillenmacher, Forsch. Gesch. Optik., 1, (1930), 203-222; J. Soc. Glass Tech., 14, (1930), Abs. 458.
- Die Plattmuhle und ihre Musierwelle. Ein wichtiges Gerat zur Brillenherstellung in Nurnberg und Furth, ZfoO, 19, (1931), 139-143.
- Ein Beitrag zur Geschichte des Wettbewerbes der Nurnberg-Regensburger Brillenmacher um das Jahr 1600, ZfoO, 20, (1932), 164-169.
- Ein Beitrag zu unseren Kenntnissen der Meisterstucke der alten Brillenmacher, ZfoO, 30, (1942), 16-21.
- Geschichte der Brillenerzeugung Venedigs, Berlin, 1929.
- "Instructions sur l'insage des lunettes on conserves" von Thomin, marchand miroitier-lunettier Paris 1746. Ein Beitrag zur Geschichte des Brillen--und Optiker-wesens im 18. Jahrhundert, Arch. f. Augenh. Wiesb., lxxiv, (1913), 98-103.
- Lederbrillen, ZfoO, 16, (1928), 2-10.

Masterpieces of old lens makers, ZfoO, 30, (1942), 16-21.

Nachtrag zu den Schlitzbugelbrillen, ZfoO, 19, (1931), 97-99.

Noch eine alte deutsche Brillenmacherordnung, Zschr. ophth. Optik, 11, (1923), 33.

Über Eisenbahnbrillen, Zschr. ophth. Optik, 13, (1925), 103.

Über Brillenmunzen und Medaillen, Arch. f. Ophth., cV, Ber., (1921), 688-707.

Zur Geschichte der Nurnberger Brillenmacher im 18 und 19. Jahrhundert. ZfoO, i, Berlin, (1913), 106-110.

Beitrage zur Entwicklung der Kenntnis von der Brille, Ztschr. f. Augenh., xI, Berlin, (1918), 50-77.

Einige Berichte über die oberdeutschen Brillenfabriken aus dem Ende des 18. und dem Anfang des 19. Jahrhunderts, Centr. Ztg. Opt. Mech., 44, (1923), 123-124, 134-135.

Spectacles and Eyeglass: Their Forms, Mounting etc., London, 1907.

Podesta Goethe's attitude towards glasses, Klin. Monatsbl. Augenh., 117, (1950), 304-307.

Prausnitz, G. Das Augenglas in Bildern der kirchlichen Kunst im XV und XVI Jahrhundert, ("Studien zur deutschen Kunstgeschichte", No. 180.), Strassburg, Neitz, 1915.

Prausnitz, P. H. Fritted glass filter discs, F. Industr. Engng. Chem., 16, (1924), 370; Glas u. Appar., 5, (1924), 101.

Rasmussen, O. D. History of Chinese spectacles, Bangor, Me., 1915.

Rasmussen, O. D. Dr. Barck's history of spectacles, Optician, 139, (1960), 569-570.

The history of spectacles: a note, Optician, 143, (1962), 47.

Old Chinese Spectacles, Tientsin, 1915.

Reed, J. L. . . . valued at two shillings, A Fourteenth-century Bishop and his Spectacles, Vision, 6, (1952), 31-33.

Reetz, H. Bildnis Und Brille, Oberkochen/Wurtt, 1957.

Redi, F. Lettera Intorno all' Invenzione degli Occhiali. . . , Firenze, 1678.

- Reis, W.
Ein literarisches Brillendokument aus dem Artang des XIV Jahrhunderts, Folia ophthal. orient., I, (1932-1934), 399.
- Richardson, J.
Invention of a Machine, London, 1797.
- Rohr, M. von
Acht Vorlesungen zur Geschichte der Brille, Centr. Ztg. Opt. Mech., 41, (1920), 383-385, 393-396, 405-409, 416-421, 429-432, 443-444, 456-460, 472-475; und als Sonderdruck: Berlin, 1921.
- Additions to our Knowledge of Old Spectacles: A Summary of Papers Published in 1923-24 Relating to the Subject of the Thomas Young Oration of 1923, Trans. opt. Soc., 26, (1924-25), 175-187; J. Soc. Glass Tech., 9, (1925), Abs. 362.
- Aus der Geschichte der Brille, Berlin, 1928.
- Aus der Geschichte der Brille mit besonderer Berücksichtigung der auf der Briefschen beruhenden, Jenaischen Sammlung, VDI-Verlag, (1921), Berlin.
- Ausgewählte Lesestücke aus Christoph Scheiners Augenbuch, ZfoO, 7, (1919), 35-44.
- Bausteine zur Brillengeschichte, Auch. Augenhk., 91, (1922), 333-340.
- Beitrag zur Geschichte der suddeutschen Brillenfabriken, Dtsch. Mech.-Ztg., (1917), 83.
- Contributions to the History of English Opticians in the First Half of the Nineteenth Century (with Special Reference to Spectacle History,) Trans. opt. Soc., 28, (1926-27), 117-148; J. Soc. Glass Tech., 11, (1927), Abs. 419.
- Das Auge und die Brille, Leipzig, Teubner, 1912.
- "Der grosse Streit bei der Einführung der periskopischen Brillengläser," Centr. Ztg. f. Opt. u. Mech., 43, (1922), 439-41, 449-53, 459-62, 468-71, 478-80, 488-91.
- Development of Spectacles, London, 1938.
- Die Brille als optisches Instrument, Berlin, 1921.
- Die Entwicklung der Brille vi, Naturwissenschaften, vii, Berlin, (1919), 209-211.
- Die Nürnberger Brillenherstellung. Ein Versuch einer zusammenfassenden Darstellung, Centr. Ztg. Opt. Mech., 43,

(1922), 185-187, 206 bis 208, 225-227.

Ein Beitrag zur Geschichte der Brillenherstellung, Zschr. ophth. Optik, 12, (1924), 28.

Ein neuer Beitrag zur Geschichte der Brillenherstellung, ZfoO, xii, Berlin, (1924), 120-27.

Ein versuch zur Ermittelung der optischen Kenntnisse der Brillenhersteller um das Jahr 1600, ZfoO, x, Berlin, (1922), 1, 33.

Ein weiterer Beitrag zur Geschichte der Brillenherstellung, ZfoO, 12, (1924), 128.

Eine deutsche Schmuckbrille aus dem 18. Jahrhundert, ZfoO, 26, (1938), 33-34.

Eine neu aufgetauchte Form der Stirnbrille, ZfoO, 25, (1937), 158-160.

Eyes and Spectacles, London, N. D.

Gedanken zur Geschichte der Brillenherstellung, Forsch. Gesch. Opt., 2, (1937), 121-128.

Geschichte der Brillenherstellung, Berlin, 1937.

Moritz von Rohr zum siebzigsten Geburtstag, Carl Zeiss, Nachr. Sonderheft, April 4, 1938.

Nachweise und Bemerkungen zur älteren Brillengerichte, ZfoO, 5, Berlin, (1917), 1-12.

On Aspherical Surfaces for Spectacle Lenses, Proc. Opt. Conv. Lond., 2, (1912), 108-115.

Optische Bemerkungen zur Regensburger Brillenmacherordnung um 1600, ZfoO, 8, (1920), 76-85, 97-103.

The Thomas Young Oration: "Contributions to the History of the Spectacle Trade from the Earliest Times to Thomas Young's Appearance," Trans. opt. Soc., 25, (1923-23), 41-72; J. Soc. Glass Tech., 8, (1924), Abs. 114.

Über ältere Arbeiten zur Feststellung des Augenastigmatismus. Ein Nachtrag, ZfoO, 13, (1925), 111-115.

Über ältere Formen von Brillen und Augenglasern, ZfoO, 15, (1928), 11-16.

Über Brillenpreise aus älterer Zeit, Centr. Ztg. Opt. Mech., 40, (1919), 209-211.

Über die Entwicklung der Brille bis zum Anfang des 19. Jahrhunderts, Centr. Ztg. Opt. Mech., 37, (1916), 211-212, 227-228, 243-244.

Ueber altere Wandlungen der Gläserformen. 1. Brillengläser für achsensymmetrische Augen, Klin. Monatsbl. f. Auganh., xviii, Stuttg., (1914), 408-415.

Ueber Brillenpreise aus alterer Zeit, Centr. Ztg. f. Opt. u. Mech., 46, (1925), 184-186.

Ueber Neuerungen auf dem Gebiete der Brillenoptik, ZfoO, iv, Berlin, (1916), 183-187.

Ueber Neuerungen auf dem Gebiete der Brillenoptik, Berlin, 1913-33.

Unser Wissen von den Nürnberger und Fürther Brillenmachern, ZfoO, 19, (1931), 33-58.

Weitere Aufschlüsse über das englische Brillenwesen, Berlin, 1930.

Zur Brillenherstellung vor 300 Jahren, DOW, 2, (1917), 1-5.

Zur Brillenversorgung Deutschlands im 18. Jahrhundert, ZfoO, 3, (1915/16), 73-79.

Zur Entwicklung der Fernrohrbrille, ZfoO, vi, Berlin, (1918), 25-35.

Zur Entwicklung des Brillenglases mit besonderer Berücksichtigung der neuzeitlichen Verbesserungen, ZfoO, 27, (1939), 5-12.

Zur Geschichte des Brillenkastens, ZfoO, 13, (1925), 107-110.

Zur Geschichte und Entwicklung des Dunckerschen Betriebes, Zschr. ophth. Optik, 19, (1931), 33.

Rohr, M. von & Stegmann, K.

Zur Brillenversorgung Deutschlands um die erste Hälfte des 19. Jahrhunderts. Ein Nachtrag, ZfoO, 12, (1924), 146-155.

Rognetta, F.

Recherches sur les lunettes, L'experience, 9, (1842), 145.

Ronchi, V.

Why has the inventor of glasses not been discovered?, Riv. oftal., 1, (February, 1946), 140-144.

Rosen, E.

Carlo Dati on the invention of eyeglasses, Isis, 44, (1953), 4-5.

Did Roger Bacon invent eyeglasses?, Arch. Int. Hist. Sci., 7, (1954), 3-15.

The invention of eyeglasses, J. Hist. Med., 11, (1956), 13-46, 183-218.

Rouyer, J.

Coup d'oeil retrospectif sur la lunetterie, Paris, 1901.

Rucker, C. W.

The invention of eyeglasses, Proc. Staff Meetings Mayo Clinic, 35, (1960), 209-216.

Rudolf, A.

Wege zur Bestimmung des Scheitelbrechwerts von Brillenglasern, Berlin, 1928.

Scalinci, N.

A proposito di Alessandro della Spina e di storia della invenzione degli occhiali, Riv. Stor. crit. Sci. med. nat., 24, (1933), 140.

Schott, G.

Magia Universalis Naturae et Artis, sive Recondita Naturalium et Artificialium Rerum Scientia, Heribpoli (Wurzburg), 1657-59.

Schutz, E.

Die Geschichte der Brille, Bild der Wissenschaft, 3, (1966), 998-1009.

Selva, L.

Esposizione delle Communi e Nuove Spezi di Cannocchiali, Telescopi, Microscopi, Venezia, 1761.

Sena, J. A.

Several Thoughts on Eyeglasses, Rev. Assoc. med. argent., 72, (September, 1958), 367-371.

Simon, J. M.

Notes per a l'Historia de les Ulleres, Barcelona, 1924-31.

Singer, C.

Steps leading to the invention of the first optical apparatus (Studies in the history and method of science, 2, Oxford, (1917-21), 399.

Smee, A.

Vision in Health and Disease, the value of glasses for its restoration and the mischief caused by their abuse, London, 1847.

Smith, E. T.

The history of spectacles, Med. J. Aust., 15, (1928), 2.

Smith, J.

Processes of polishing glass, Mech. Mag., 15, (1831), 316-17.

Snyder, C.

A bibliography of the history of ophthalmology, Arch. Ophth., 71, (1964), 267-283.

- Societe Optique et Precision de Levallois La Lunetterie Medicale en Verre Arme, Rev. D'optique, 1, (1922), 35; J. Soc. Glass Tech., 6, (1922), Abs. 295.
- Sorsby, A. A short history of ophthalmology, London, 1933.
- Spera, L. Chi ha inventato gli occhiali?, Il giornale d'Italia, 3, (September 8, 1920).
- Strebel, J. Kunst und Auge, Stuttgart, 1937.
- Strebel, J. Die Alteste Brillendarstellung, Stuttgart, 1936.
- Sulzer, M. Les origines du prijuge contre les lunettes, Ann. d'ocul. Paris, cxxxlv, (1905), 32-39; Rec. d'opht. Paris, xxvii, (1905), 539-547.
- Taylor, G. L. Research background of the trifocal lens, Canadian J. Optom., 20, (1957), 21-23.
- Taylor, H. L. Visual Aids, Birmingham, 1928.
- Thomin, M. Lunettes d'Angleterre du Meilleur Artiste, Z. ophthal. Opt., 5, (1917), 79.
- Thompson, C. J. S. The Origin and Development of Spectacles, Connoisseur, 94, (October, 1934), 231-239.
- Trevor-Roper, P. D. Spectacles and their origin, Med. ill., 6, (1952), 360.
- Walker, E. On Spectacles: Particularly the Periscopic, Nichols. J., (1804), 291-294.
- Watson, E. C. The invention of spectacles, Amer. J. Phys., 21, (1953), 556.
- Wehe, E. von Speculi Origine, Frankfurt, 1615.
- Wilde, H. E. Geschichte der Optik, Berlin, 1838.
- Willam, H. A. Die Brille und ihre Geschichte, Aesth. Med., 13, (1964), 1-15.
- Wirzenius, P. Several chapters from the history of Spectacles and a review of old spectacles preserved in our country, Finska lak-sallsk. handl., 1, Helsingtors, (1914), 805-828.

Wood, C. A.

The first scientific work on spectacles, Ann. M. History,
3, New York, (1921), 150-155.

KEY TO ABBREVIATIONS

- DOW == Deutsche Optische Wochenschrift. Weimar.
Opt. == The Optician. London.
ZfoO == Zeitschrift fur ophthalmologische Optik. Berlin.

ADDENDA

- Bourgeois, A. L'Histoire des Lunettes, Naples, 1909.
- Geschichte der Brille--Katalog einer Bilderausstellung zur, Amsterdam, 1929.
- Greeff, R. Schutzbrillen, und Augenschutzvorrichtungen in Felde,
Leipzig, 1922.
- Historische Brillendarstellungen--6 Kunstblatter aus der Zeitschrift, Weimar,
1922.
- Nagaoka, N. The History of Eyeglasses in Japan, Japan, 1970 (?).
- Willam, H. A. Versuch einer ersten Zusammenstellung von Brillensamm-
lungen in Europa and Ubersee, Klinische Monatsblätter
für Augenheilkunde, 155, No. 1, 1969.