# LONDON OPTOMETRISTS EXCEL IN ABILITY



## Stop Straining Your Eyes

Immediately you find yourself straining your eyes, you can make up your mind there is real cause back of it.

The cause may be very simple, and again it may not.

When your eyes mean so much to you, why continually ignore this warning-leaving it until it is more serious?

Our graduate opticians, plus the aid of the latest instruments science has perfected, eliminate absolutely any element of chance and fit you with glasses exactly suited to your individual case.

It Costs You Nothing To Find Out! WHY DELAY?

### Brown Optical Co.

223 Dundas Street - London, Ont.

### Steele Fitted Glasses **Rest Your Eyes Properly**

LITTING GLASSES is not only a matter of correcting your vision—but proper selection also means that the lenses we choose will be restful to your eyes. F. Steele is an expert in his calling-another guarantee of proper fitting. No matter what the cause may be-near or far-sightedness, astigmatism or any other eye ailment-you require correct lenses. He'll furnish them-come in and allow him to examine your eyes.

SATISFACTION GUARANTEED.

F. STEELE, London's Leading Optometrist

OPPOSITE LOEW'S THEATRE.

#### NERO USED CONCAVE EMERALD TO SEE SPORTS IN COLISEUM

Introduced by Roger Bacon

tain extent and were not ignorant of the use of lenses and optical instruments. It is recorded in history that the great Roman emperor Nero found that a concave or hollowed emerald enabled him much better to see the sports of the day at the see the sports of the day at the amous coliseum. However, the first use of spectacles was for the correc-tion of presbyopia (old age), and to Roger Bacon is given the credit of having first worn and recommended their use—years 1214-1292.

For many years the use of spectacles was confined to correcting the deficiencies of the eye due to age, and not until some fifty years ago was this important subject carefully studied by eminent scientists, which has resulted in great advances being made in the treatment of the eye and disease associated with it, and scopes. for the correcting of the various op-tical defects by properly adjusted glasses. In no other branch of the sciences has such progress been made—so much relief to suffering humanity been given—as in the

science of optics.

Common Defects. The most common defects of the : Presbyopia, known as old hyperopia, known as far sight; Myopia, known as near sight; astigmatism; cyclophoria; esophoria,

muscular; hyperphoria, insufficiencies; and exorphoria.

Presbyopia is a natural condition due to the inability of the eye to focus or adjust itself to close work, such as reading and sewing, etc. This condition manifests itself at any time from 40 to 45 years of age, al-though cases are on record which have developed as early as 30. The symptoms are a demand for brighte light, holding reading at a greater distance than formerly, print blur-ring or running together, and eyes

Hyperopia is really mechanical detect—that is, the eye hall being flatter than is natural, with a result that images falling on the retina of corneal astignatism, is of the sale to conduct the examination late of the eye are blurred. The only way to overcome this condition is to supply a convex or positive lense that will adjust the rays of light so that they will bring the image to a sharp focus. Hyperopia is a most common and troublesome eye defect, and also the most deceiving to the one who suffers from it. The cyes look perfectly clear, and look perfectly on the eye through the pupil, The systom of the eye hall being that it is also that they will bring the first close and an assument the pupil and also the whole amount of corneal astignatism, is of the greatest value, enabling the operand astignatism, is of the whole amount of corneal astignatism, is of the whole amount of corneal astignatism, is of the whole amount of corneal astignatism, is of the selection of their eye on the refractive indices of the circle of their eye of the farms of the frame is the pupil and which these lenses are made is based on the selection of the selection of the refractive indices. The principle on the refractive indices of the circle of their eye of the sale of the refractive indices. The principle of the circle of the circle of their eye of the circle of the refractive indices. The principle of the whole amount of the which these lenses are made is based on the pupil and quickly, and by an experienced optometrist in a great many cases immediately remigret to their answers, as there is no

The Closed Eye. Myopia-The word myopia is of Greek origin, meaning to close the amination of the inside of the eye eye—the partial closing of the eye in the blood vessels, retina, macular order to see distinctly being charand fundus would be impossible acteristic of all myopes. They thereby concentrate the rays of light, gethands of an experienced refractionis acquired by young children when compelled to do close work. The condition of myopia is directly opposite to that of hyperopia, and the treatment of that is also the reverse ficial glass. He spent years of the of hyperopia. The eyeball in this case is too curved, and the rays of light come to locus before they reach the back of the eye, and therefore concave lenses must be used to lengthen the focus.

Astigmatism was first discovered in the year 1801, by Thomas Young, an English scientist, and was first corrected by cylindrical lenses, in 1827, by Prof. Airy, an astronomer at Cambridge, one of the most versatile scientific writers of any age. Volumes could be devoted to the explanation of astigmatism and its complications with presbyopia, hyperopia and myopia, but to those not familiar with the anatomy of the eye it would be impossible to convey a clear idea without an object lesson, as it were, with different lenses, charts of the eye, etc. Of all the refractive errors of the eye, astigmatism and its complications require the most skill and experience in correcting, yet only a few words can be devoted to the subject.

First Real Use of Spectacles ous muscles of the eye. At each side and also the top and bottom of the eyeball, there are a set of muscles attached, which enable the eye to be in 1214.

TO CORRECT OLD AGE

turned in any direction. If these muscles are not balanced correctly, there is a great strain on the nervous system, as increased nerve force Written Especially for The Advertiser

By C. H. CLARKE, D.O.R.O.,
The ancients undoubtedly understood the laws of refraction to a certain extent and were not ignored.

who suffer from lesser defects, who are troubled with headaches, pains in the head, sometimes stomach trouble. to wear glasses for the relief of these conditions, as the weak muscles of your eyes can be exercised and strengthened the same as any other muscle in the body. This must be done, of course, under the direction of a thoroughly competent and up-

Scientific instruments are used in a modern examination of the eye. The days of the old trail frame and ready-made spectacles are gone Among the most important of the devices used today for eye examin meter, retinoscope and opthalmo

The modern phorometer takes the place of the trial frame of bygona days, and is used in determining the refractive errors, that is, the defections of the control of the co that can be remedied by the use proper lenses. Every combination of lenses, regardless of power or some proper lenses. can be prescribed by us

Measures Curves. The ophthalmeter measures corneal curves



OPTHALMETER.

ing. A contest with age is hopeless, and it is wise to yield gracefully to the first sign, especially in a case of your eyes.

Hyperopia is really mechanical delect—that is, the eye hall being flatter than is natural, with a result that images falling on the retina or back of the eye are blurred. The only way to overcome this condition is to supply a convex or positive of a long examination is to supply a convex or positive of a long examination. It has not:

OPTHALMETER.

The new invisible bifocal is the positions of chem as a person's ments. It is quite common to have same function is the option one eyebrow higher than the other, son's appearance as a person's ments. It is quite common to have one everything disases. It is no more logical to one eyebrow higher than the other, was the same glasses for everything they enable the wearer to read or sew properly and also to see at an indefinite distance. The principle on the refractive indices of the selection of their eyestion to the selection of their clothes. Glasses either complete or mar your appearance.

Frames—Ten years ago there were principle on the refractive indices of the different glass used, namely, of their clothes. Glasses either complete or mar your appearance as a person's astignation one to have one certainty the object. The new invisible bifocal is the astignation on the same glasses. It is no more logical to one eyestrow higher than the other, wear the same glasses. It is no more logical to one everything that word in glasses. It is no more logical to one everything that word in glasses. It is no more logical to one everything that word in glasses. It is no more logical to one everything that word in glasses. It is no more logical to one everything that word in glasses. It is no more logical to one everything that word in glasses.

There are proper glasses for everything that the operation of

with this quickly form an exact diagnosis condition manifests itself by head-the trouble. This type of examina-nches, dizziness, nausea or nervous tion is used on very young children irritability. Properly fitted glasses illiterates, or people of foreign birth. questioning necessary in a procedure of this kind.

Ophthalmoscope--A thorough xting a more defined and distinct image. Myopia is known as a disease of civilization, it being seldom found in uncivilized countries, and is generally hereditary, but of times when this instrument is used.



SIR WILLIAM CROOKES.

Malformation.

Astigmatism is also a malformed condition—an optical defect of the made under his supervision, and fineye, in which, from want of uniformally succeeded in producing a glass ity in the curvature of the cornea, which, while almost without color, different meridians have a different absorbs the ultra-violet and infrafocus. The perfectly formed cornea is part of a sphere or globe, and has the same degree of convexity in all directions, consequently the same focal distance for all meridians. The focal distance for all meridians. The astigmatic cornea is not symmetrical, but has different curvatures in all directions to each other. The rays of light passing through the greatest curvature have the shortest focal difference, and those passing through the least curvature have the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least discomfort, and yet at the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time see everything in the least curvature have the same time same time see everything in the least curvature have the same time s the least curvature have the other people whose occupation focal distance; no sharply brings them in contact with bright defined image can be formed upon light, either natural or artificial, the retina by such a cornea. For exthe retina by such a cornea. For example, draw a line around an egg,
and another line through the middle
and at right angles to the first. It
is first evident that these lines have
a very different curvature, and that
if the egg was made of glass it power or strength of lenses in the a very different curvature, and that the idea of having more that one if the egg was made of glass it would form a sharp focus, as a glass sphere does; it would be astigmatic. All lenses for astigmatic cases are ground to fit each particular eye, bifocal lens consisted of two half lenses for a stigmatic tests to be satisfaction and convenience to millions of eyeglass wearer. The Arst ground require year delicate tests to leaves in the same frame, with a high ground to fit each particular eye, and require very delicate tests to determine the exact amount of correction for each particular meridian.

Strengthens Muscles.

Eye Muscles—This is indeed the rewest and also very important branch of optical science, the exercising and strengthening of the vari-

### **Facts About Optometry**

What are the duties of the Ontometrist?

He detects by the use of various instruments and other means the errors of vision of his patients.

Anuthing else?

Yes. he determines what lenses are required to correct the errors and supplies

the Optometrist specializes in errors of mision?

Yes. Optometry is a profession distinct in duties from all others, and not conflicting in any way with any other profession.

What indicates the value of Optometry?

The fact that it has been legally recognized in every state and province

What is one important provision of the Optometry Before a person can practice

Optometry he is required to successfully pass a pre-scribed examination.

Who oversees this examin-A Board of Examiners in

Optometry. Do the Optometry laws make Optometry of more

value to the public? Yes, as an incompetent person is not permitted to practice.

What does Optometry em-

The pathology, anatomy and physiology of the eye. extreme liability to abnormalities. . The means by which they may be correct-The detection of all errors of vision when not caused by a diseased condition. The correction of these errors by lenses, with out the use of drugs. Also the preparation of the necessary lenses and their adjustment to the features of the patient.

It would appear that Optometry occupies an important relation to public wel-

Yes, it is fully as important as any other profession.

Information relative to the care of your eyes will be published each Monday, Wednesday and Saturday on the Woman's Page. Read these carefully.

#### LONDON OPTICAL CO.

Richmond Street. Dominion Savings Building A. M. DAMBRA, Optometrist.



### Will Your Eyes Pass Inspection?

F YOUR EYES were called to the test, would they pass with flying colors? Or are you among the thousands of people who daily suffer from headache and eyestrain, due to lack of corrective glasses or from wearing poorly-fitted lenses? Allowing your eyesight to go on in a poor condition only means that you will regret the incident in future years. Come in today and allow our expert optician to fit the proper glasses for your case. If you don't need them, we'll tell you so frankly. An examination is no obligation.

