

LOWERED THE RECORD.

Bones of the Hand Photographed in Four and a Half Seconds.

Lively work of the X-rays at the University of Pennsylvania—Professor Goodspeed shortens the process, and without the use of extraordinary apparatus—Why Roentgen deserves credit for a chance discovery—Ingenious inventions utilized at the Wistar Institute of Anatomy—Interesting summer work for teachers.

PHILADELPHIA, April.—[Special Correspondence.]—Professor Arthur W. Goodspeed, of the University of Pennsylvania, has reduced the period of exposure necessary for the X-ray photograph to the lowest limit yet reached. He has obtained a clear picture of the bones of the hand with an exposure of only four and one-half seconds.

Professor Goodspeed has not the advantage of any new or unusual apparatus. His success is due to the fact that he has made an especial study of the arrangement of the usual apparatus, namely, the Crookes tube, the Carbutt plate and an induction coil capable of an eight-inch spark. So far as known, no other experiment has been able to get a clear picture with so short an exposure.

There has been some disposition to belittle Professor Roentgen's credit for his discovery on the ground that it was made by chance. Professor Goodspeed, who is a great admirer of the famous German physicist, asked to day if he thought it true that the discovery was made by chance.

"Yes," he replied, "it is true, but he deserves none the less credit on that account. It is just this way: If a man took a stroll in the woods and found a ten dollar gold piece, he would perhaps be lucky, but the discovery would be of no credit to him whatever. If on the other hand, he had made a specialty of geology and had become convinced that in a certain place he would find gold, had acted on the impulse, gone and actually discovered the gold, he would deserve credit, for he would have followed out a definite line of research. That is exactly what Roentgen did."

A MODERN SCIENTIFIC MUSEUM.
A remarkably interesting department of the University of Pennsylvania, and one not generally appreciated as it should be, is the Wistar Institute of Anatomy and Physiology. This was founded only two years ago, but already it stands as one of the finest anatomical museums in this country.

The building itself is planned almost perfectly for its purpose. It is a handsome fireproof building of three floors and basement, every portion of which has some particular use. In the basement are the dissecting rooms, a well-equipped machine-shop, and every facility for articulating and mounting the specimens which are afterward exhibited on the floor above. On the second and third floors are mounting rooms, exhibiting rooms, and offices.

There are features in the arrangement of things in the Wistar Institute which are unique in the peculiar branch of research which Dr. J. Greenman, the director, and his assistants are carrying on. Greenman is most ingenious, has invented several modes of exhibiting anatomical specimens which entirely obviate some old difficulties. The usual way of exhibiting alcohol-preserved specimens in the use of round glass jars, is faulty, because they are magnify the object enclosed. Dr. Greenman, at considerable expense, has had prepared square jars instead of round ones, and display a specimen as it real-

other difficulty in the past has been with glass preserving cases. Ordinary cases can never be filled with alcohol, for a sudden rise of temperature might shatter the liquid as to break the surface of the glass and that of liquid to be looked through; a fluid of reflection and, therefore, a defect exhibition. Dr. Greenman invented a case the face of which, instead of being horizontal, is vertical. The specimen is put in the case is entirely filled with alcohol. At the top of the case is a tube leading to a siphonal reservoir. Under the influence of the alcohol escapes into the jar, and when cooled flows back. Thus all reflection and danger of change from a jar or shock is obviated. Another remarkable feature of this case is that no paste or other material of any kind is used. The jar is hermetically sealed by

means of a rubber and cloth which clamp tightly to the glass.

DISSECTION AT A GLANCE.

A unique method of arrangement is practiced at the Wistar Institute. Take, for instance, the human skull. At one side of the case used a complete skull is exposed. Then to the right, marked by a parenthesis, as one would enumerate the parts on paper, is made the first classification, the upper part and the face. These in turn undergo further classification, until the most minute bones and parts are displayed at the extreme right. Thus a dissection is performed before one's own eyes though no work is done at the time whatever. The vertebrae and all other parts of the body are shown in a similar manner, and so clearly is everything labeled and in so orderly a manner that the simple layman, who doesn't know glenoids from clavicle, can clearly understand all. The Wistar Institute is so complete that it has even its own printing office for the purpose of printing labels and so on.

UNIVERSITY EXTENSION IN SUMMER.
The Fourth Summer Meeting of the American Society for the Extension of University Teaching will be held in the buildings of the University of Pennsylvania through the four weeks beginning July 6.

There will be five departments or courses given this year, viz., Roman Life and Thought, Psychology, Music, Science and Mathematics. The courses in Roman Life and Thought are an outgrowth of similar courses in Greek Life and Thought, which proved so successful last year. In the course this year Professor Munroe Smith, of Columbia, and the Rev. Thomas J. Shahan, of the Catholic University of America, will figure prominently.

The courses in Psychology are similar to those given last year, and will be under the direction of Professor Lightner Witmer, of the University of Pennsylvania. There will be added this year, however, a laboratory course of twenty sessions, to be known as the Demonstration Course in Experimental Psychology.

The course in music will be under the direction of Professor Hugh A. Clark, of the University of Pennsylvania, and Mr. Thomas W. Surrette, of Baltimore. Among the features in this course will be three lectures on Church Music, by Mr. Surrette, dealing with the early music of the Middle Ages, the Renaissance, and the Baroque.

Playing and How to Accompany a Choir; and three lectures by Mr. Surrette on the Italian and German opera of the seventeenth and eighteenth centuries, and Wagner and his music drama. The scientific courses relate chiefly to Botany and Chemistry. Dr. Benjamin L. Robinson, of Howard, Prof. John M. Macfarlane and Dr. Harshberger, of the University of Pennsylvania, and others will give lecture courses.

Dr. J. J. Schwatt, of the University of Pennsylvania, who has been doing some remarkable work in higher mathematics, will be in charge of the Department of Mathematics. Courses in elementary mathematics and the teaching of them will be dealt with.

The broad scope of this work renders it peculiarly appropriate that the meeting be held at the University of Pennsylvania. The facilities there are remarkable in every way, inasmuch as the University is noted for its courses in history and its splendid libraries and laboratories. The courses will be of such a nature that they can be undertaken with profit by persons who have had no special preliminary training.

This year the fees for teachers who reside in Pennsylvania will be lower than heretofore; it is announced also that a substantial reduction in fares will be made by the railways of the Trunk Line Association to Summer Meeting students.

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Chas. D. Russel and Miss Jennie Fockler of Selinsgrove were married on the 4th inst. The groom is a student at Susquehanna University and the bride is a daughter of J. B. Fockler, the popular landlord.

Perhaps Middleburgh is to have a Milk Trust. A paper was put in circulation asking cow owners to sign a rate of 10 cents for milk and 25 cents for cream. Only a few dropped into the combine and it is only a scheme to retaliate because cows are no longer allowed to feed on the public streets of the town.

Salt Rheum Unanimous Choice

and Eczema cured. These two complaints are so tenacious that the readers of the Poor should know of the success obtained by using Dr. David Kennedy's Favorite Remedy. Where all other treatments have failed, it has made a complete cure.

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Trist List for May Term, 1896.

Use of N. T. Dindore vs. Part Trevorton Evangelical Church; David S. Sholly vs. Part Trevorton Evangelical Church Association; Charles E. Spangler vs. Uriah H. Fessler; Albert W. Potter vs. P. R. B. Co.; Mollie M. Burns vs. P. R. B. Co.; H. H. Grimm vs. P. M. Teats; B. F. Wagner vs. The Selinsgrove Water Co.; Robert Reich vs. Wm. Romig; Amanda L. Romig vs. Robert Reich; B. J. Swigert vs. Edgar Reish.

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