Professor William Konrad Rontgen, kind of rays are set free, which differ versity of Wurzburg. gen's own report arrived, so cool, so business-like, and so truly scientific in character, that it left no doubt either of the truth or of the great importance of the preceding reports.

The Routgen rays are certain invisible rays resembling, in many respects, rays of light, which are set free when a high pressure electric current is discharged through a vacum tube. vacum tube is a glass tube from which all the air, down to one-millionth of an atmosphere, has been exhausted after the insertion of a platinum wire in either end of the tube for connection with the two poles of a battery or in-When the discharge is duction coil. sent through the tube, there proceeds from the anode-that is, the wire which is connected with the positive pole of the battery-certain bands of light, varying in color with the color of the glass. But these are insignificant in comparison with the brilliant glow which shoots from the cathode. or negative wire. This glow excites brilliant phosphorescence in glass and many substances, and these "cathode rays," as they are called, were observed and studied by Hertz; and more deeply by his assistant, Profossor Lenard, Lenard having, in 1894, rewood, and other substances, and pro- humanity than even the Listerian anduce photographic results beyond. It tiseptic system of surgery; and its

professor of physics at the Royal Uni- greatly from those described by Len-Then Ront- ard as cathode rays. The most marked difference between the two is the fact that Rontgen rays are not deflected by a magnet, indicating a very essential difference, while their range and penetrative power are incompar-In fact, all those qualably greater. ities which have lent a sensational character to the discovery of Rontgen's rays were mainly absent from these of Lenard, to the end that, although Rontgen has not been working in an entirely new field, he has by common accord been freely granted all the honors of a great discovery.

Among the other kinds of matter which these rays penetrate with ease is the human flesh. That a new photography has suddenly arisen which can photograph the bones, and, before long, the organs of the human body; that a light has been found which can penetrate, so as to make a photographic record, through everything from a purse or a pocket to the walls of a room or a house, is news which cannot fail to startle everybody. That the eve of the physician or surgeon, long baffled by the skin, and vainly seeking to penetrate the unfortunate darkness of the human body, is now to be supplemented by a camera, making all the parts of the human body as visported that the cathode rays would ible, in a way, as the exterior, appears penetrate thin films of aluminum, certainly to be a greater blessing to was left, however, for Professor Ront- benefits must inevitably be greater gen that during the discharge another than those conferred by Lister, great