



Mr. Thorpe is a Hard Man to Catch with a Camera, but He Couldn't Escape This One

a great deal of concern. And after a number of efforts to sell, and quite as many mistakes, the committee gave Bro. R. R. Ingram power of attorney to sell the property. He at once employed a civil engineer, and had the property subdivided in lots, and placed same on the market. A large portion of this property has been sold, and several elegant brick buildings have been erected.

Brother Ingram has handled the property in a way that is highly commendable.

This July 30, 1919.
W. K. LITTLETON

Testing Yadkin Falls Turbines

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be created or destroyed, as for example; if all the ashes, gases, and vapors produced by fire are carefully weighed, their total weight will be found to equal the total weight of the fuel and air consumed by the combustion. This theorem concerning energy is, very consistently, called the "law of conservation of energy."

The law of the conservation of energy shows that energy may exist in many forms. One form of energy is heat. Another form is the motion of matter, such as the rotation of a wheel, or the motion of a car or wagon. Heat is supposed to be really the motion of the

molecules of matter in the form of vibration, or rapid rotation.

This brings us to the idea of "potential energy." Potential energy is energy stored in some form which is not directly perceived by the senses. For example, the energy of the fuel and air, mentioned above, is not apparent until the heat of combustion has been produced in the furnace. Hence, the energy of combustion exists as chemical potential energy until combustion has taken place, whereupon it appears as heat in the furnace. In the case of a waterfall, the energy does not exist in the water, but only as a capacity of the water to do work by falling a certain distance. Hence before the water reaches the waterfall it is said to possess potential energy. Upon descending the cataract, or rapids, the potential energy is converted into mechanical energy in the shape of the turbulent motions of the water produced by the fall.

It is the business of the water wheel (that is, the prime mover) to prevent the turbulent motions of the water, and thereby convert the energy of the falling water into a useful form of motion, namely, that of the machinery in the mill. In the case of the Yadkin Falls power-house, the machinery driven by the water wheels consists of huge electric generators, which receive the mechanical energy from the water

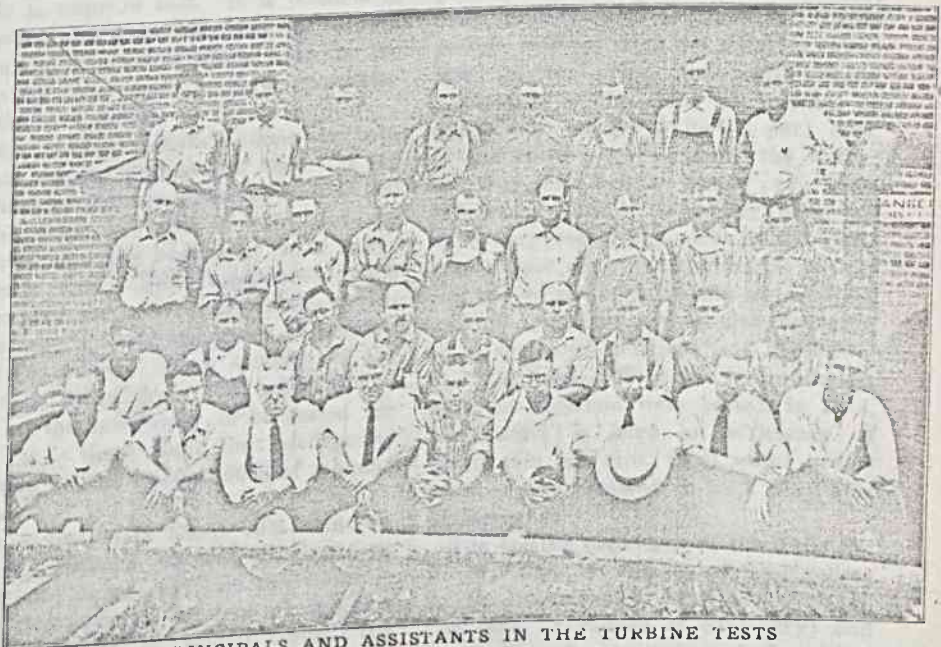
the Salisbury and Fayetteville Road, now known as the Falls Road, on which the church dug a well, and built a school-house, which stood in front of the present Badin Hospital.

The church from its earliest history buried its dead in the lot adjoining the church lot. But, like the church, they had no title to the land until 1903, when the Geo. W. Calloway heirs made the church a deed to one acre adjoining the church lot.

On November 6, 1913, the church traded the half-acre lot across the Salisbury Road to the Southern Aluminum Company, for a lot of equal size on the Falls Road, adjoining the cemetery lot. By such arrangement, all the lots were put contiguous with each other, which gave us a frontage on the Falls Road of about five hundred and thirty feet.

The coming of the town of Badin so enhanced the value of real property that the church thought it could sell possibly \$25,000 worth of property, and still have enough left to meet all the needs of the church.

Thus it was that, when the building committee for the erection of the church that is now in process of construction was appointed, it was decided, after procuring the consent of the church, to sell one acre of the church property. But the method of disposing of it to the best advantage gave the committee



PRINCIPALS AND ASSISTANTS IN THE TURBINE TESTS

First Row—Giersch; Scott, A. L.; Groat; Allen; Cochrane; Ely; Jessup; Bromelmeier; Morgan.
Second Row—Du Bose; Rinehart; Napier; Roth; Cook; Morton; Kelly; Tucker, V.; Killibrew.
Third Row—Riser; Pannill; Martin; Tucker, M. H.; Carrick; Burgess; Howell; Burris; Earnhart.
Top Row—McKinney; Shoemaker; Ramsey; Staton; Dawkins; Blackwelder; Scott, G. C.