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## A Lenard Ray Tube

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*Iowa State College*

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## A LENARD RAY TUBE

L. E. PINNEY

The tube is constructed from materials readily available in the average laboratory shop. It is operated by a standard 100 kilovolt X-ray transformer.

IOWA STATE COLLEGE,  
AMES, IOWA.

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## CHARACTERISTICS OF MERCURY VAPOR PUMPS

L. E. PINNEY

Curves showing relation between fore pressure and flow of mercury vapor required to produce a definite degree of exhaustion have been obtained for a mercury vapor pump. The pump is built according to definite specifications. Its general use will be discussed.

IOWA STATE COLLEGE,  
AMES, IOWA.

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A NEW ELECTRICAL METHOD OF DETERMINING  
SPECIFIC HEATS<sup>1</sup>

EARL C. McCracken

In this report is described a method of procuring the specific heats of materials by comparing the rate of heating of water by direct passage of current through it to the rate of heating when the water contains small particles of the material. By this method one may determine accurately the specific heat of a substance over various temperature ranges and while the temperature is rising. It is also especially applicable where the specific heat cannot be obtained accurately by the method of mixtures because of the nature of the material.

DEPARTMENT OF PHYSICS,  
IOWA STATE COLLEGE,  
AMES, IOWA.

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<sup>1</sup> Presented at the meeting of Iowa Academy of Science, April, 1932, Cedar Falls, Ia.