

ing the test paper is wholly outside the bath.

With all tubes in position in the bath the temperature and time are noted. The tubes are kept under constant observation, if necessary for rather more than one hour.

The color of the test paper prepared as described is maroon, which, in the presence of acid vapors, is either bleached or becomes a pale yellow. The change is well marked and readily observed: for the pur-

poses of this test, the time in minutes required for a positive result is taken when the lower edge of the paper is bleached or changed in color to a distance of approximately  $\frac{1}{8}$  in.

*Note 1.* The apparatus described can suitably be increased in size so that more than six samples can be tested at one time.

*Note 2.* If a tube is removed after test while the other tubes are in position, the vacant hole must be closed with a cork or bung.

### MICRO-CRUCIBLE TEST

This test involves the determination of the loss in weight of a punching of cinema film when heated in a small porcelain crucible in a ventilated oven maintained at 100 C.

The crucibles are of 1 ml capacity and are obtainable from Royal Worcester Porcelain Co., or indirectly through laboratory supply firms.

A disc of film of approximately 0.25-in. diameter and weight about 7 mg is punched out of the film in question and transferred to the

crucible weighed to the nearest 0.01 mg. The combined weight of crucible and film is then determined accurately, also to 0.01 mg, and the weight of film found by difference.

The crucible and film are then heated in a ventilated oven maintained at 100 C and the combined weight determined at 168 hr and 300 hr. The loss in weight is then calculated as a percentage on the original weight of the film.

### RESULTS

#### *Alizarin Red Heat Test*

60 min and over  
Under 60 min but not under 30 min  
Under 30 min but not under 10 min  
Under 10 min

### SENTENCE

*Micro-Crucible Test*  
(after 168 hr)

*Retest after:*

—	2 yr
—	1 yr
Under 10%	6 months
10% and over	Copy and destroy
—	Copy and destroy

## Meetings of Other Societies

Institute of Radio Engineers, Cincinnati Section, Spring Technical Conference on Television, April 29, Cincinnati, Ohio

Institute of Radio Engineers, Technical Conference, May 3-5, Dayton, Ohio

Armed Forces Communications Assn., Annual Meeting,

May 12, New York, and Long Island City

May 13, Fort Monmouth, N.J.

Acoustical Society of America, Spring Meeting, June 22-24, State College, Pa.

Illuminating Engineering Society, National Technical Conference,

August 21-25, Pasadena, Calif.