

# Scientific Libraries in Washington

*Bibliography*

In order to assist members of the American Library Association at their Washington meeting, we have listed below the leading scientific and technical libraries in the District of Columbia. We feel that it will be of interest to all our readers to know of these facilities in the National capital. Libraries of four of the government departments are grouped, for convenience, at the end.

## *Independent Libraries*

*American Ethnology Bureau.* Smithsonian Inst. 27,141 volumes, 15,937 pamphlets. Librarian: Ella Leary.

*American Red Cross.* 17th and D Sts., N. W. 3,400 volumes, 2,200 pamphlets. Librarian: Robina Rae.

*American University.* Nebr. and Mass. Ave., N. W. 50,000 volumes, 15,000 pamphlets. Librarian: Henry G. Statham.

*Astrophysical Observatory.* Smithsonian Inst. 3,637 volumes, 2,700 pamphlets. Librarian: William L. Corbin.

*Bureau of Railway Economics.* Transportation Bldg. 125,000 volumes. Librarian: Richard H. Johnson.

*Carnegie Institution.* 16th and P Sts., N. W. 2,000 volumes. Secretary: W. M. Gilbert.

*Catholic University of America.* Mich. Ave., N. E., adjoining Soldiers' Home. 50,000 volumes. Librarian: Joseph Schneider.

*Congressional Library.* 1st and East Capitol Sts. 3,625,000 volumes. Librarian: Herbert Putnam.

*George Washington University.* 2033 G St., N. W. 57,000 volumes and pamphlets. Librarian: A. F. W. Schmidt.

*Geophysical Laboratory,* Carnegie Institution. 2801 Upton St., N. W. 3,000 volumes.

*Georgetown University,* Riggs Memorial Library. 35th and O Sts., N. W. 140,000 volumes. Librarian: P. J. Connican.

*Georgetown College Observatory.* Georgetown Heights. 2,400 volumes. Director: Rev. Paul A. McNally, S. J.

*Georgetown University Medical School.* 920 H St., N. W. 4,000 volumes.

*Government Printing Office,* Superintendent of Documents. North Capitol and H Sts. 396,433 volumes or pamphlets, 31,169 maps, mostly

government publications. Librarian: Sarah Ambler.

*Langley Aeronautical Library.* Smithsonian Inst. 1,600 volumes, 700 pamphlets. Librarian: William L. Corbin.

*National Geographic Society.* 16th and M Sts., N. W. 10,000 volumes. Librarian: Esther A. Manion.

*National Museum.* Natural History Bldg. and Arts and Industries Bldg. The Mall at 9th St. 69,300 volumes, 105,700 pamphlets. Librarian: William L. Corbin.

*National Zoological Park.* Librarian's office at Smithsonian Inst. 1,200 volumes, 300 pamphlets. Librarian: William L. Corbin.

*Pan-American Union.* 17th and B Sts., N. W. 50,400 volumes and pamphlets. Librarian: Charles E. Babcock.

*Public Library of the District of Columbia.* N. Y. Ave. and 9th St., N. W. 320,000 volumes. Librarian: George F. Bowerman.

*Robert Brookings School of Economics and Government.* 1724 Eye St., N. W. 4,000 volumes. Librarian: Caroline Klager.

*Science Service.* 2101 B St., N. W. 3,500 volumes, 2,000 pamphlets. Librarian: Minna Gill.

*Smithsonian Institution.* The Mall at 10th St. 700,000 volumes, divided among ten district libraries, located in different parts of Washington. Chief are the Smithsonian deposit at the Library of Congress, which is the Institution's main library, and the library of the National Museum, which is listed separately. See also American Ethnology Bureau, Astrophysical Observatory, Langley Aeronautical Library and National Zoological Park. Librarian: William L. Corbin.

*Terrestrial Magnetism Dept., Carnegie Institution.* 36th St. and Broad Branch Rd., N. W. 5,000 volumes, 7,000 pamphlets. Librarian: Harry S. Harradon.

*Volta Bureau.* 35th St. and Volta Place, N. W. 10,000 volumes, 500 pamphlets. Librarian: Mrs. Laura Stovel.

## *Department of Agriculture*

*Agriculture Department Main Library.* 1358 B St., S. W. 200,000 volumes. Librarian: Claribel R. Barnett.

*Agricultural Economics Bureau.* 1358 B St., S. W. 25,000 volumes,

5,000 pamphlets. Librarian: Mary G. Lacy.

*Animal Industry Bureau.* 12th and B Sts., S. W. Librarian: Mary F. Thompson.

*Chemistry and Soils Bureau.* 216 13th St., S. W. 9,700 volumes. Librarian: Minerva G. Beckwith.

*Dairying Bureau.* 12th and B Sts., S. W. 615 volumes, 4,700 pamphlets. Librarian: Carrie B. Sherfy.

*Entomology Bureau.* 12th and B Sts., S. W. Librarian: Mabel Colcord.

*Experiment Stations Office.* 220 14th St., S. W. Librarian: Cora L. Feldkamp.

*Fixed Nitrogen Research Laboratory.* Nebraska Ave. and Tunlaw Rd., N. W. 2,800 volumes, 1,000 pamphlets. Librarian: Mrs. Mildred S. Sherman.

*Forest Service.* 930 F St., N. W. 25,535 volumes. Librarian: Helen E. Stockbridge.

*Home Economics Bureau.* N-O Building, Union Station Plaza, E St., N. W. 2,000 volumes. Librarian: Mrs. M. F. Nystrom.

*Plant Industry Bureau.* 14th and B Sts., S. W. Librarian: Jessie M. Allen.

*Public Roads Bureau.* 513 14th St., N. W. 6,000 volumes, 10,000 pamphlets. Librarian: Orrena L. Evans.

*Weather Bureau.* 24th and M Sts., N. W. 45,000 volumes. Librarian: C. Fitzhugh Talman.

## *Department of Commerce*

*Commerce Department (Main Library).* 19th St. and Pa. Ave, N. W. 110,000 volumes. Librarian: Anne G. Cross.

*Coast and Geodetic Survey.* 119 D St., N. E. (Library now moving.) 40,000 volumes, large collection charts and pamphlets. Librarian: Hugh H. Hartley.

*Fisheries Bureau.* 6th and B Sts., N. W. 41,500 volumes, 1,750 pamphlets. Librarian: Louise Beitzell.

*Mines Bureau.* 17th and F Sts., N. W. 25,000 volumes. Librarian: Julia H. Clark.

*Patent Office (Scientific Library).* 9th and F Sts., N. W. 105,000 volumes. Librarian: Miles O. Price.

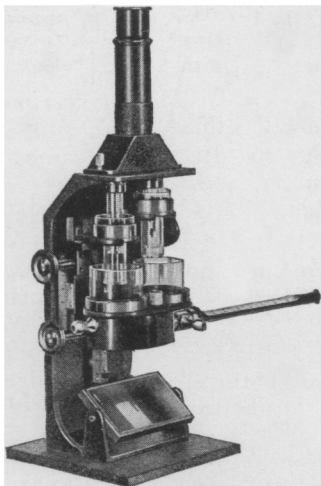
*Bureau of Standards.* Conn. Ave. and Pierce Mill Rd., N. W. 33,000 volumes. Librarian: A. Fanti.

*Department of the Interior*  
*Education (Turn to next page)*

# HYDROGEN ION COLORIMETRY

ALL substances when dissolved in water yield electro-positive ions and electro-negative ions. In any solution, the concentration of the hydrogen ion which is electro-positive, determines the strength of acidity. This value is normally expressed on a logarithmic scale and is designated by the term pH where  $\text{pH} = \log \frac{1}{(\text{H}^+)}$  and  $(\text{H}^+)$  is the number of free hydrogen ions.

Pure water breaks up very slightly according to the equation  $(\text{H}^+)(\text{OH}^-) = 1 \times 10^{-14}$ . Since in this case equal numbers of  $(\text{H}^+)$  and  $(\text{OH}^-)$  ions must exist in the solution,  $(\text{H}^+) = 1 \times 10^{-7}$  and  $(\text{OH}^-) = 1 \times 10^{-7}$ . If we regard pure water as neutral, then the condition of neutrality is given by  $\text{pH} = 7$ . If  $(\text{H}^+)$  increases, the exponent will decrease, and if  $(\text{H}^+)$  decreases, the exponent will increase. In other words, values between  $\text{pH} = 0.0$  and  $\text{pH} = 7.0$



B. & L. H-ion Colorimeter

will be acid, and between  $\text{pH} = 7.0$  and  $\text{pH} = 14.0$  will be alkaline.

Many organic dyes have the property of changing color, the assumed color being dependent on the pH value of the solution in which they are placed. The pH range of each individual dye is small, but a series can be chosen which will cover the entire pH scale. Thus bromphenol-blue is yellow at  $\text{pH} = 3.1$  and blue at  $\text{pH} = 4.7$ . Between these two values, the color will be a combination of the two colors, the concentration of each component depending upon the exact value of the pH. Similarly thymol-blue is yellow-green at  $\text{pH} = 8.0$  and blue at  $\text{pH} = 9.6$ . The Bausch & Lomb H-ion Colorimeter has been designed to enable the technician to evaluate the color change of the indicator within its own range. It can be used with any indicator desired and thus will cover the entire pH range.

*Send for Literature*

**Bausch & Lomb Optical Company**

697 Saint Paul Street

Rochester, N. Y.

## Library List—Continued

*Bureau*, 5th and F Sts., N. W. 175,000 volumes. Acting librarian: Martha R. McCabe.

*Geological Survey*. 18th and F Sts., N. W. 192,000 volumes, 115,000 pamphlets. Librarian: Julia L. V. McCord.

*Reclamation Bureau (Engineering Library)*. 18th and F Sts., N. W. 3,200 volumes, 3,800 pamphlets. Engineer in charge: W. I. Swanton.

*St. Elizabeth's Hospital*. Congress Heights. 10,000 volumes, 4,000 pamphlets. Librarian: Clara Willard.

### Department of Labor

*Labor Department (Main Library)*. 1912 G St., N. W. 125,000 books and pamphlets. Librarian: Laura A. Thompson.

### Department of the Navy

*Aeronautics Bureau*. Room 2243, Navy Bldg., 18th and B Sts., N. W. 1,000 books and pamphlets. Librarian: (Miss) K. A. Michaelis.

*Engineering Bureau*. Room 2324, Navy Bldg., 18th and B Sts., N. W. 2,000 volumes.

*Hydrographic Office*. Navy Bldg., 18th and B Sts., N. W. 4,000 volumes, 2,000 pamphlets. Librarian: Mrs. Nellie H. Crocker.

*Naval Observatory*. Mass. Ave. and W St., N. W. 31,466 volumes, 6,000 pamphlets. Librarian: (Post vacant).

*Naval Medical School*. 25th and E Sts., N. W. 22,000 volumes. Librarian: Jean C. Baxter.

### Department of the Treasury

*Hygienic Laboratory*. 25th and E Sts., N. W. 10,530 volumes, 3,000 pamphlets. Librarian: Carrie Myers.

*Public Health Service*. 25th and E Sts., N. W. 12,703 volumes, 5,400 pamphlets. Librarian: Margaret Doonan.

### Department of War

*Army Air Service*. Munitions Bldg., 19th and B Sts., N. W. 3,300 volumes, 400 pamphlets, large collection of photographs and blueprints. Librarian: Edith Ware.

*Army Medical Library*. 7th and B Sts., S. W. 281,139 volumes, 390,822 pamphlets. Librarian: Col. Percy M. Ashburn.

*Insular Affairs Bureau*. Munitions Bldg., 20th and B Sts., N. W. 3,800 volumes. Chief of bureau: Maj. Gen. Frank McIntyre.

*Science News-Letter*, May 11, 1929

There were 929 women medical students in the United States last year.