

represented, the author suggests that a change in physiographic conditions may be called into account. Thus a forested area, more like the jungles of India, may have preceded the present-day treeless condition. As the latter condition became prevalent, conspicuous birds dependent upon cover would naturally fall prey to such animals as the coyotes.

It is, of course, not known that *Pavo californicus* was ornately endowed, as in the existing peacocks. But the inference is that it was. Unless the feather development could be adapted or modified, it would become an impediment to cursorial power. In this connection Mr. Miller asserts his belief that the great length of the rectrices in the Roadrunner are "unquestionably of use in guiding the swift movements of the bird in its efforts to escape enemies, or in pursuit of its active prey." Our own observations would scarcely lead to this conclusion, altho we would hesitate to ascribe any other function to the Roadrunner's elongated tail.—J. G.

#### CORRESPONDENCE

Editor THE CONDOR:

The July-August number of THE CONDOR was received a day or two ago and I noted among the editorials one in which you state the need of a new manual of colors, and the bad state of your copy of Ridgway's Nomenclature.

I have just received today a book called: *Code des Couleurs*, a l'usage des Naturalistes, Artistes, Commerçants et Industriels. 720 échantillons de couleurs classés d'après la méthode Chevreul simplifiée, par Paul Klincksieck et Th. Valette; Paris, 1908. It can be had from G. E. Stechert & Co., 129-133 West 20th St., New York, for \$2.58 postpaid.

I think it is a *better* color book than Ridgway's, barring the fact that it is written in French and has a different color nomenclature. The book has 25 plates of block colors, like Ridgway's, 720 blocks.

"Ce Code doit sa naissance aux Champignons. Malgré ce point de départ, son application n'est nullement limitée a ce sujet; il doit au contraire trouver son emploi dans toute circonstance ou l'on a besoin de préciser une désignation de couleur."

There are 32 pages of text in which is taken up: (Pt. I) 1. Origine du Code des Couleurs. 2. Mode d'emploi du C. C. 3. Solidité des Couleurs et du papier du C. C.; and (Pt. II) 1. des couleurs au point de vue physique. 2. Sources de lumière.—Lumières colorées. 3. couleurs matérielles ou pigments colorés. 4. Classification des couleurs. 5. Code des Couleurs a l'usage des naturalistes. 6. Confection du Code des Couleurs. 7. Examen des couleurs complémentaires. Contrastes.

The colors are on heavy paper, and I think the book is more durable than Ridgway's.

There are 62 colors under *vert bleu*. The system of *numbering* is just as convenient and sensible as Ridgway's *names*. There is nothing, I think, significant or advantageous in writing *Van Dyke Brown* instead of *Orange 118*.

The authors express the hope that some system of color nomenclature may become international, and I don't see why a system like this is not pretty good.

F. GRINNELL, JR.  
Pasadena, Calif., July 27, 1909.

#### Directory of Members of the Cooper Ornithological Club

Revised to August 1, 1909.

(Residence in California unless otherwise stated. Year following address indicates date of election.)

##### HONORARY MEMBERS

- Belding, Lyman, Stockton. 1896.  
Merriam, Dr. C. Hart, 1919 16th St., Washington, D. C. 1909.  
Ridgway, Robert, 3413 13th St., N. E., Brookland, D. C. 1905.

##### ACTIVE MEMBERS

- Adams, Ernest, Box 21, Clipper Gap, Placer Co. 1896.  
Alexander, Annie M., 1006 16th St., Oakland. 1908.  
Anderson, Malcolm P., Menlo Park. 1901.  
Appleton, J. S., Simi, Ventura Co. 1901.  
Arnold, Dr. Ralph, 726 H. W. Hellman Bldg., Los Angeles. 1893.  
Bade, Wm. Frederic, 2616 College Ave., Berkeley. 1903.  
Bailey, Henry F., 94 Pacific Ave., Santa Cruz. 1902.  
Bailey, H. H., 321 54th St., Newport News, Va. 1903.  
Bailey, Vernon, Dept. of Agriculture, Washington, D. C. 1904.  
Bales, Dr. B. R., 151 West Main St., Circleville, Ohio. 1906.  
Barnes, R. Magoon, Lacon, Ill. 1908.  
Barrows, Prof. Walter B., Box 183, East Lansing, Mich. 1909.  
Bay, J. Cliff, Ingot, Shasta Co. 1903.  
Beal, Prof. F. E. L., Dept. Agriculture, Washington, D. C. 1904.  
Beck, Rollo H., Berryessa. 1894.  
Bennett, R. H., Room 503, 149 California St., San Francisco. 1909.  
Bent, A. C., Taunton, Mass. 1909.  
Birdseye, Clarence, Biological Survey, Washington, D. C. 1909.  
Bishop, Dr. Louis B., 356 Orange St., New Haven, Conn. 1904.  
Black, Lester, Bloomington, Ind. 1908.

- Blain, Merrill W., 1321 Glendale Ave., Tropic. 1909.
- Bliss, J. G., 3281 Briggs Ave., Alameda. 1908.
- Bohlman, Herman T., 46 N. 9th St., Portland, Ore. 1903.
- Bolander, L. P., Jr., 462 Fair Oaks St., San Francisco. 1907.
- Bolt, B. F., 1421 Prospect Ave., Kansas City, Missouri. 1909.
- Bowles, Chas. W., Kerby, Josephine Co., Ore. 1903.
- Bowles, J. H., 401 So. G St., Tacoma, Washington. 1903.
- Brewster, William, 145 Brattle St., Cambridge, Mass. 1904.
- Brooks, Allan, Okanogan Landing, Br. Columbia, Canada. 1906.
- Bryan, Wm. Alanson, Bishop Museum, Honolulu, Hawaiian Islands. 1905.
- Burnham, Dr. Clark, 2335 Warring St., Berkeley. 1907.
- Burnham, Mrs. Clark, 2335 Warring St., Berkeley. 1907.
- Burns, Frank L., Berwyn, Pa. 1909.
- Carpenter, Nelson K., Box 127, Escondido. 1901.
- Carriger, Henry W., 200 Devisadero St., San Francisco. 1895.
- Chamberlain, Willard, 226 S. Bunker Hill St., Los Angeles. 1906.
- Chambers, W. Lee, Santa Monica. 1897.
- Chapman, Frank M., American Museum Natural History, Central Park, New York, N. Y. 1903.
- Childs, John Lewis, Floral Park, N. Y. 1904.
- Clifton, H. T., 871 N. Lake Ave., Pasadena. 1904.
- Coale, Henry K., Highland Park, Ill. 1906.
- Cohen, Donald A., Alameda. 1894.
- Colburn, A. E., 744 S. Broadway, Los Angeles. 1905.
- Cooper, Jas. S., care F. S. Cooper, Haywards. 1903.
- Craven, Jesse T., 811 Roosevelt Ave., Detroit, Mich. 1909.
- Currier, Ed. S., P. O. Drawer 21, St. Johns, Multnomah Co., Ore. 1904.
- Daggett, Frank S., 109 South Elmwood Ave., Oak Park, Ill. 1895.
- Davis, Evan, Orange. 1894.
- Davis, J. M., 1438 7th St., Eureka. 1908.
- Dawson, W. Leon, 5810 16th Ave., N. E., University Sta., Seattle, Washington. 1906.
- Dean, W. F., Three Rivers. 1901.
- Deane, Ruthven, 135 Adams St., Chicago, Ill. 1904.
- Deane, Walter, 29 Brewster St., Cambridge, Mass. 1907.
- Dearborn, Ned, Biological Survey, Washington, D. C. 1909.
- D'Evelyn, Dr. F. W., 2103 Clinton Ave., Alameda. 1905.
- Dixon, Joseph, Palo Alto. 1904.
- Duprey, H. F., 919 Morgan St., Santa Rosa. 1906.
- Dutcher, Wm., 525 Manhattan Ave., New York, N. Y. 1905.
- Dwight, Dr. Jonathan, Jr., 134 W. 71st St., New York, N. Y. 1904.
- Eastman, Lieut. F. B., 10th Inf., Fort Benjamin Harrison, Ind. 1904.
- Emerson, W. Otto, Haywards. 1894.
- Esterly, Prof. C. O., Occidental College, Los Angeles. 1908.
- Ferry, John F., Field Museum, Chicago, Ill. 1907.
- Finley, Wm. L., R. F. D. 1, Box 60, A, Milwaukee, Ore. 1900.
- Fisher, Dr. A. K., Dept. Agriculture, Washington, D. C. 1904.
- Fisher, Prof. W. K., Box 77, Palo Alto. 1900.
- Flanagan, John H., 392 Benefit St., Providence, R. I. 1904.
- Follett, Richard E., 84 State St., Boston, Mass. 1909.
- Fowler, Frederick H., Palo Alto. 1901.
- Fuertes, Louis A., Cornell Heights, Ithaca, N. Y. 1904.
- Gane, Henry Stewart, Santa Barbara. 1903.
- Gault, Benj. T., Glen Ellyn, Ill. 1905.
- Gay, Harold S., Minas Bonanza y Anexas, via Saltillo, Bonanza, Zacatecas, Mexico.
- Gifford, Edw. W., 3256 Briggs Ave., Alameda. 1904.
- Gilman, M. French, Sacaton, Ariz. 1901.
- Goldman, E. A., Dept. of Agriculture, Washington, D. C. 1900.
- Goldman, Luther J., Orosi. 1908.
- Gould, Jos. E., 5 Clifton St., Norfolk, Va. 1909.
- Grant, Chapman, Williamstown, Mass. 1905.
- Grey, Henry, Box 86, R. 2, Mission Valley, San Diego. 1901.
- Grinnell, Joseph, Museum Vert. Zoology, University of California, Berkeley. 1894.
- Groesbeck, Charles E., Ocean Park. 1901.
- Hanford, Forrest, 1363 11th St., Oakland. 1909.
- Hann, H. H., Mt. Hood, Ore. 1909.
- Hanna, Wilson C., Box 146, Colton. 1902.
- Harris, R. Park, care Wm. Wood, Renton, Washington. 1909.
- Hawver, Dr. J. C., Box 214, Auburn. 1909.
- Hazard, R. G., Peace Dale, R. I. 1909.
- Heinemann, Oluf J., 1532 Fulton St., San Francisco. 1908.
- Heller, Edmund, Riverside. 1894.
- Henderson, Hon. Junius, Box 398, Boulder, Colo. 1909.
- Hersey, L. J., 2121 West 34th Ave., Denver, Colo. 1909.
- Holland, Harold M., Box 515, Galesburg, Ill. 1901.
- Hoover, Theodore J., 8 Prince Edwards Mansions, Palace Court, Bayswater, London, W., England. 1898.

- Howard, O. W., Box 1177, Los Angeles. 1895.  
 Howell, Alfred Brazier, Catonsville, Md. 1908.  
 Howell, B. F., Jr., R. F. D. 1, Boonton, N. J. 1909.  
 Huey, Lawrence, 1618 Main St., San Diego. 1909.  
 Hunter, J. S., Union Hotel, San Mateo. 1903.  
 Illingsworth, J. F., 2201 Harvard Ave., N., Seattle, Wash. 1896.  
 Ingersoll, A. M., 832 5th St., San Diego. 1895.  
 Isham, C. Bradley, 30 E. 63rd St., New York, N. Y. 1909.  
 Jacobs, J. Warren, 404 S. Washington St., Waynesburg, Pa. 1909.  
 Jackson, Willis H., Pescadero. 1901.  
 Jay, Alphonse, 1622 Pennsylvania Ave, Los Angeles. 1901.  
 Jay, Antonin, 1622 Pennsylvania Ave., Los Angeles. 1901.  
 Jesse, Dr. R. L., Philo, Ill. 1909.  
 Jewett, Stanley G., 541 Lexington Ave., Portland, Ore. 1909.  
 Johnson, Myrtle E., National City. 1908.  
 Jordan, Dr. David Starr, Stanford University. 1902.  
 Judson, W. B., 404 Mason Opera House, Los Angeles. 1894.  
 Julien, Miss Lillian M., Yreka, Siskiyou County. 1901.  
 Kaeding, Geo. L., Eureka, Nevada. 1903.  
 Kaeding, Henry B., 1146 Hobson St., Los Angeles. 1895.  
 Keeney, Ashby H., Santa Barbara. 1904.  
 Kellogg, Prof. Vernon L., Stanford University. 1901.  
 Kessing, Lawrence R., 1430 Santa Clara Ave., Alameda. 1899.  
 Keyes, Chas. R., Mt. Vernon, Iowa. 1900.  
 Kimball, H. H., 1527 M St., Fresno. 1909.  
 Knickerbocker, Chas. K., 503 Western Union Bldg., care Griffin Wheel Co., Chicago, Ill. 1905.  
 Kohler, Louis S., 98 Watsessing Ave., Bloomfield, N. J. 1909.  
 Lamb, Chester C., 549 West 43rd Place, Los Angeles. 1899.  
 Law, J. Eugene, Hollywood. 1900.  
 Lelande, H. J., City Hall, Los Angeles. 1897.  
 Linton, C. B., 1756 Pine Ave., Long Beach. 1906.  
 Littlejohn, Chase, Redwood City. 1909.  
 Loomis, Leverett M., Cal. Acad. of Sciences, San Francisco. 1902.  
 Love, Chas. A., 3353 22d St., San Francisco. 1901.  
 Luce, Geo. W., Haywards. 1904.  
 Luther, Clarence H., 8 McElroy Bldg., Fayetteville, Ark. 1909.  
 Mailliard, Ernest C., care Bank of California, San Francisco. 1909.  
 Mailliard, Jno. W., 300 Front St., San Francisco. 1894.  
 Mailliard, Joseph, 300 Front St., San Francisco. 1895.  
 Marsden, H. W., Witch Creek. 1905.  
 Massey, Herbert, Ivy Lea, Burnage, Didsbury, Manchester, England. 1909.  
 Matthews, Dr. Ellen, 313 E. Ave. 60, Los Angeles. 1901.  
 McAtee, W. L., Biological Survey, Department of Agriculture, Washington, D. C. 1907.  
 McGregor, R. C., Bureau of Science, Manila, P. I. 1893.  
 McLain, R. B., Market and 12th Sts., Wheeling, W. Va. 1897.  
 Metz, Chas. W., Box 296, Claremont. 1906.  
 Miller, Prof. Loye Holmes, State Normal School, Los Angeles. 1905.  
 Miller, W. DeWitt, American Museum Natural History, New York, N. Y. 1909.  
 Miner, Dr. H. N., The Eagles' Nest, Ben Lomond, Santa Cruz County. 1903.  
 Mitchell, Dr. Walton I., 321 Barnes Bldg., Wichita, Kans. 1909.  
 Moran, R. B., 661 Waverly St., Palo Alto. 1897.  
 Morcom, G. Frean, 1815 N. Raymond Avenue, Pasadena. 1904.  
 Munk, Dr. J. A., 821 Security Bldg., Los Angeles. 1909.  
 Nelson, E. W., Department of Agriculture, Washington, D. C. 1904.  
 Newbury, F. E., 1153 Washington St., Oakland. 1904.  
 Newkirk, Dr. Garrett, 501 Slavin Bldg., Pasadena. 1900.  
 Nichols, J. T., 42 West 11th Street, New York, N. Y. 1909.  
 Noack, H. R., 309 Perry Street, Oakland. 1901.  
 Oberholser, Harry C., 1445 Girard St., N. W., Washington, D. C. 1904.  
 Obermuller, Geo. J., Box 94, Haywards. 1908.  
 Osburn, Pingree I., 735 N. Los Robles Avenue, Pasadena. 1908.  
 Osgood, Wilfred H., Field Museum Natural History, Chicago, Ill. 1893.  
 Owen, Virgil W., Tajo Bldg., care U. S. District Court, Los Angeles. 1896.  
 Palmer, Elizabeth Day, 1741 Harvard Blvd., Los Angeles. 1909.  
 Palmer, Dr. T. S., Department of Agriculture, Washington, D. C. 1903.  
 Peabody, Rev. P. B., Blue Rapids, Kans. 1904.  
 Pemberton, J. Roy, 846 Bryant St., Palo Alto. 1900.  
 Perez, Richard M., 1222 Alvarado St., Los Angeles. 1909.  
 Peterson, W. M., Putnam, N. M. 1908.  
 Peyton, Lawrence, Sesse. 1909.  
 Pierce, Wright M., Box 116, Claremont. 1902.  
 Pleasants, Mrs. J. E., Box M, Santa Ana. 1900.  
 Pomeroy, H. K., Box 575, Kalamazoo, Michigan. 1909.  
 Price, A. E., Grant Park, Ill. 1905.

- Randolf, Flora A., 1706 Walnut Street, Berkeley. 1907.
- Rathbun, S. F., 217 14th Ave., N., Seattle, Wash. 1904.
- Ray, Milton S., 299 San Jose Ave., San Francisco. 1899.
- Redington, A. P., Box 66, Santa Barbara. 1897.
- Reining, Chas., 1436 Clay Street, Davenport, Iowa. 1906.
- Richards, E. B., 340 Church St., Grass Valley, Nevada County. 1909.
- Richards, Dr. T. W., 1911 N St., N. W., Washington, D. C. 1908.
- Richardson, Chas. H., Jr., Stanford University. 1902.
- Richmond, Dr. Chas. W., U. S. National Museum, Washington, D. C. 1904.
- Riley, J. H., U. S. National Museum, Washington, D. C. 1909.
- Ritter, Prof. W. E., La Jolla. 1901.
- Roberts, Austin F., 981 Summit Avenue, Pasadena. 1909.
- Roberts, Dr. T. S., 1603 4th Avenue, Minneapolis, Minn. 1909.
- Robertson, Howard, City Hall, Los Angeles. 1896.
- Rockwell, Robt. B., 1240 Downing Ave., Denver, Colorado. 1908.
- Rowley, J., 2640 Haste Street, Berkeley. 1909.
- Rudolph, Frank B., 523 10th St., Oakland. 1908.
- Sampson, Walter B., 3856 West St., Oakland. 1894.
- Saunders, Aretas A., care Forest Service, Bozeman, Montana. 1909.
- Saunders, W. E., London, Ontario, Canada. 1909.
- Schneider, J. J., Box 363, Anaheim. 1899.
- Sclater, William Lutley, Odiham Priory, Winchfield, Hauts, England. 1909.
- Sharp, Clarence S., Escondido. 1902.
- Shaw, William Ray, 427 East 4th St., Long Beach. 1909.
- Sheldon, H. H., care Commercial Art Co., cor. West Mission and Brady Sts., San Francisco. 1903.
- Shepardson, D. I., 1128 Hobart Blvd., Los Angeles. 1909.
- Skinner, E. H., 1931 Barnard Park, Los Angeles. 1900.
- Smith, Austin Paul, Miller Hotel, Brownsville, Texas. 1907.
- Smith, C. Piper, Logan, Utah. 1905.
- Smith, Philo W., Jr., Box 285, Eureka Springs, Ark. 1909.
- Snyder, Prof. J. O., Box 775, Stanford University. 1900.
- Spielman, Oscar P., 99 E. North Ave., Chicago, Ill. 1909.
- Steinbeck, Wm., 1029 N. Hunter St., Stockton. 1897.
- Stejneger, Dr. L., U. S. National Museum, Washington, D. C. 1904.
- Stephens, Frank, 3756 Park Blvd., San Diego. 1894.
- Stone, D. D., R. F. D. 3, Oswego, N. Y. 1909.
- Strecker, John K., Jr., Baylor University, Waco, Texas. 1909.
- Swales, Bradshaw H., Grosse Isle, Michigan. 1906.
- Swarth, H. S., U. C. Museum Vert. Zoology, Berkeley. 1897.
- Swett, Helen, 555 Chestnut St., San Francisco. 1901.
- Taverner, P. A., 55 Elmhurst Avenue, Highland Park, Michigan. 1909.
- Tarbell, Olga S., 165 N. Marengo, Pasadena. 1906.
- Taylor, Loren E., Fyffe, El Dorado County. 1897.
- Taylor, Walter P., U. C. Museum Vert. Zoology, Berkeley. 1905.
- Test, Prof. Louis Agassiz, Occidental College, Los Angeles. 1909.
- Thayer, John E., Box 98, Lancaster, Mass. 1906.
- Todd, W. E. Clyde, Carnegie Museum, Pittsburgh, Pa. 1909.
- Treganza, A. O., 62 Hooper Bldg., Salt Lake City, Utah. 1907.
- Tyler, John G., R. F. D. 8, Box 61, Fresno. 1905.
- Ulrich, Al. G., 3307 Washington Ave., St. Louis, Missouri. 1909.
- Van Fleet, Clark C., 2020 Pacific Avenue, San Francisco. 1906.
- Van Voris, William S., 1152 S. E St., Tacoma, Washington. 1909.
- Walker, Dr. Lu Ella Cool, 509 13th and Washington Sts., Oakland. 1908.
- Warren, E. R., 20 W. Caramillo Street, Colorado Springs, Colorado. 1909.
- Waterman, Edith S., 728 Paru Street, Alameda. 1906.
- Wear, Winifred N., 2448 Monterey St., Fresno. 1909.
- Wetmore, Alex., Lawrence, Kansas. 1909.
- Weymouth, F. W., Stanford University. 1906.
- Wheeler, Roswell S., 296 Park View Terrace, Oakland. 1894.
- Wheelock, Mrs. H. B., 1040 Hinman Avenue, Evanston, Ill. 1909.
- Whitman, Prof. C. O., University of Chicago, Chicago, Ill. 1909.
- Widmann, Otto, 5105 Morgan Street, St. Louis, Missouri. 1904.
- Willard, F. C., Tombstone, Arizona. 1905.
- Wilder, H. E., Riverside. 1909.
- Willett, G., 2123 Court Street, Los Angeles. 1905.
- Wright, Howard W., 830 N. Orange Grove Avenue, Pasadena. 1907.
- Wueste, R., Morena Dam, San Diego. 1901.
- Zahn, Otto J., 2115 Estrella Avenue, Los Angeles. 1896.