

# INDEX.

- ACT FOR PROTECTION OF BIRDS, 5.  
Act to provide for publication, 4.  
Aley, R. J., 89, 92, 93.  
Aluminum, action of mercury on, 62.  
Amblyopsidae, degeneration in eyes, 239.  
Amblyopsidae, ear and hearing of, 242.  
Arthur, J. C., 174.  
Aspergillus oryzae, 189.
- BAKER, A. L., 101.  
Ball bearings, some tests on, 80.  
Ball, T. H., 227.  
Bennett, L. F., 283.  
Benton, G. W., 62.  
Biological station, plans for, 55.  
Blind rat of Mammoth Cave, 253.  
Blood sinuses, in reptilian head, 228.  
Blood studies, formalin as reagent in, 222.  
Bradley, M. C., 117.  
Brannon, M. A., 291.  
Bruner, H. L., 228, 229.  
By-Laws, 13.
- CAMPBELL, J. L., 72.  
Camphoric acid, 160.  
Car bolsters, formula for deflection of, 157.  
Caves and sinkholes, geologic relations of, etc., 258.  
Caves of Missouri and Kentucky, 58.  
Cell, effect of centrifugal force on, 169.  
Cereal smuts, resistance of, etc., 64.  
Chologaster agassizii, and its eyes, 251.  
Cicada septendecem, distribution of, 225.  
Committees, 1898-1899, 9.  
Constitution, 11.  
Convergence, a case of, 247.  
Coulter, Stanley, 215.  
Crow Roosts of Lake county, 227.  
Cunningham, A. M., 212, 214.  
Curtiss, R. G., 202.  
Cuscuta, distribution of, 214.  
Cuscuta, scales of, 212.  
Cymatogaster, aberrant follicles in ovary, 229.
- DECORTICATED STEMS, absorption of water by, 169.  
Dennis, D. W., 288.  
Denny, W. A., 252.  
Desmids of Crawfordsville, 163.  
Dictyola, the centrosome in, 166.  
Differential invariants, 135.  
Diptera, reared in Indiana, 224.  
Dryer, C. R., 268, 270, 273.  
Duff, A. Wilmer, 82, 84, 85.
- EIGENMANN, C. H., 55, 58, 239, 242, 247, 251, 252, 253.  
Electrolytes, temperature coefficient of, 86.  
Elevated beach in Maine, 72.  
Elrod, M. N., 258.  
Evans, P. N., 160.
- FIELD MEETING, 1898, 34.  
Fish, taking for scientific purposes, 7  
Fishes, rods and cones in retina of, 239.  
Foley, A. L., 74.  
Foreign correspondents, 21.  
Formalin, field experiments with, 62.
- GAMETOPHYTE OF MARCHANTIA, 166.  
Garden of birds and botany, 53.  
Geometry, bibliography of, 117.  
Geometry of Simson's line, 101.  
Golden, Katherine E., 189.  
Golden, M. J., 80.  
Goss, W. F. M., 147, 149.
- HANSELL, GEORGE, 239.  
Hathaway, A. S., 88.  
Hatt, W. K., 157.  
 $\alpha$ -Hydroxy-dihydro-cisampholytic acid, 160.
- INDIANA MILDEWS, 291.  
Indiana plant rusts, 174.  
Indiana roads, the trouble with, 75.  
In memoriam, 20.  
Isosoma in Indiana, 227.
- JUG ROCK, 268.
- KANKAKEE VALLEY, 277.  
Karyokinesis in the embryo-sac, 164.  
Kendrick, Arthur, 86.  
Kizer, E. I., 222.  
Knobstone formation in Indiana, 283.  
Knobstone group, distribution of, etc., 289.

## LAKE MAXINKUCKEE, 70.

- Leonids of 1898, 151.  
*Lilium candidum*, endosperm haustoria in, 168.  
 Linear relation, etc., 154.  
 Linseed oil, iodine absorption of, 160.  
 Liquid, agitation of, 85.  
 Locomotive boiler coverings, 149.  
 Luten, D. B., 75.

## MATHEMATICAL DEFINITIONS, 147.

- McBeth, Wm. A., 72.  
 Members, active, 15.  
 Members, fellows, 14.  
 Members, non-resident, 15.  
 Meyer, J. O., 160.  
 Miller, J. A., 151, 154.  
 Mitchell, G. L., 229.  
 Montgomery, H. T., 277.  
 Mottier, D. M., 164, 166, 168, 169.  
 Multiplication, note on, 101.  
 Muscatatuck at Vernon, Ind., 270.  
 Mycetozoa, affinities of, 209.

## NATIVE PLANTS, germination and seedlings of, 215.

- Nematoid worm in an egg, 258.  
 Newsome, J. F., 289.  
 New triangle and some of its properties, 89.  
 Noyes, W. A., 160.  
 Nuclear division in vegetative cells, 164.

## OFFICERS, 1898-99, 8.

- Officers from beginning, 10.  
 Old shoreline, 288.  
 Old Vernon, 273.  
 Olive, E. W., 209.

## PIMPHALES NOTATUS, 233.

- Point invariants for the Lie groups of the plane, 119.  
 President's address, 35.  
 Price, J. A., 289.  
 Proceedings, fourteenth annual meeting, 33.  
 Program, fourteenth annual meeting, 27.

## RED MOULD, 202.

- Regular polygon, on method of inscribing, 92.  
 Ripley, G. E., 169.  
 Rothrock, D. A., 119, 135.

## SCOVELL, J. T., 70, 274.

- Shepherd, J. W., 160.  
 Slonaker, J. R., 253.  
 Smith, C. E., 101.  
 Snow-pumping engine, performance of, 147.  
 Snyder, Lillian, 186.  
 Sound, propagation of, etc., 82.  
 Sounds, intensity of telephonic, 84.  
 Stevens, M. C., 147.  
 St. Joseph and Kankakee at South Bend, 270.  
 Stuart, Wm., 64.

## TABLE OF CONTENTS, 3.

- Theory of envelopes, 88.  
 Thomas, M. B., 62, 163.  
 Triangle, concurrent sets of lines in, 93.  
 Troyer, D. J., 258.  
 Typhlomolge, eye of, 251.  
 Typhlotriton spelaeus, eyes of, 252.

## UREDINEAE OF MADISON AND NOBLE COUNTIES, 186.

## VARIATION OF SPECIES, two cases of, 288.

- Vegetable diet, indigestible structures, etc., 62.  
 Venous sinuses, supply of blood to, 229.  
 Vesuvian cycle, 72.  
 Voris, J. H., 233.

## WABASH, TERRACES OF THE LOWER, 274.

- Waldo, C. A., 35, 72.  
 Wasted energy, 72.  
 Water, evaporation of oil-covered, 85.  
 Webster, F. M., 224, 225, 227.  
 Woollen, W. W., 53.  
 Wright, John S., 62.

## X-RAY TRANSPARENCY, 74.

## YODER, A. C., 242.