

INDEX OF PROCEEDINGS 1891-1900

(INCLUSIVE)

- ABIES AND PICEA, ducts and cells of, '99, 116.
Absolute dilatation of mercury, measuring the, '00, 99.
Absorption of poison by dead animal tissue, '93, 268.
Acanthia lectularia, '92, 157.
Accurate measurements of surface tension, '94, 50.
Acetone, condensation with benzoin, '91, 47.
Acetophenone, condensation with ketols, '91, 46.
Acheta, abbreviata, '91, 132.
Acheta vittata, '91, 135.
Acoloides howardi, '92, 91.
Acoloides saitidis, '92, 90.
Aerididae of the U. S., '93, 231.
Aerididae of Vigo County, '91, 15.
Aceridium americanum, '92, 85.
Actinia, '91, 20.
Act for protection of birds, '95, 5; '96, 5; '97, 5; '98, 5; '99, 5; '00, 6.
Act to provide for publication of proceedings, '94, 4; '95, 4; '96, 4; '97, 4; '98, 4; '99, 4; '00, 5.
Action of phenyl-hydrazin on furfural, '91, 57.
Additional list of host plants, '94, 153.
Additions to the fish fauna of Wabash County, '94, 68.
Adventitious plants of Fayette County, '93, 258.
Aegeria of Central Ohio, '91, 168.
Aesthesiometer, '91, 16.
Akgistrodon, breeding habits of, '91, 107, 108.
Akgistrodon contortrix, '91, 107, 108.
Akgistrodon piscivorus, '91, 108.
Agranis vanillae, '92, 85.
Agrilus fulgens, '92, 89.
Air, micro-organisms in, '97, 143.
Air, radiation of, '97, 89.
Air thermometer for high temperatures, '92, 165.
Albumen in urine, '91, 30.
Aley, Robert J., '97, 103, 104; '98, 89, 92, 93; '99, 86, 88, 90; '00, 85, 88, 90.
Allen county kames, '91, 18.
Alloctites, '91, 67.
Alternate current transformer, with condenser in one or both circuits, '94, 50.
Alternate processes, '97, 117.
Alternating current dynamos, '95, 79.
Alumina oxyhydrate, an interesting deposit of, '94, 43.
Aluminum, action of mercury on, '98, 62.
Amblycorypha, '92, 98, 104, 106, 107.
Amblycorypha oblongifolia, '92, 104.
Amblycorypha rotundifolia, '92, 105.
Amblycorypha scudderii, '92, 152.
Amblycorypha uhleri, '92, 106.
Amblyopsidae, degeneration in eyes, '98, 239.
Amblyopsidae, ear and hearing of, '93, 242.
Amblystoma, '91, 22.
Amblystoma tigrinum, '91, 21.
Ammodramus henslowii, '91, 164.
Ammodramus leconteii, '91, 166.
Ammonia, action of, upon dextrose, '94, 51.
Ammonium citrate, action of, '96, 112.
Amoeba, the, some notes on, '94, 131.
Amphisorex leseurii, '91, 163.
Amphiuma means, '91, 22.
Analytical and quaternion treatments, '92, 20.
Anaxipha pulicaria, '91, 137.
Anaxiphus, '91, 128, 137.
Anaxiphus pulicarius, '92, 118.

* First published annual report of Proceedings.

- Anchor ring, sections of, '91, 64.
 Anderson, Indiana, ancient earthworks near, '92, 51.
 Andrews, Frank M., '94, 131; '96, 208.
 Angling in the St. Lawrence and Lake Ontario, '94, 81.
 Anilic acid, '91, 27.
 Animal parasites collected in the State during the year, '91, 80.
 Animal tissue, absorption of poison by, '93, 268.
 Annual meetings, see meetings.
 Annelida, '91, 68.
 Anthropology: the study of man, '94, 33.
 Anthrozoa, '91, 68.
 Anura, facial muscles in, '97, 203.
 Apatura eeltis, '91, 31.
 Apical growth of *Botrychium*, '91, 79.
 Apical growth of *Pinus*, '91, 79.
 Apical growth of *Tsuga*, '91, 79.
 Apithes, '91, 128, 139.
 Apithes agitator, '91, 139.
 Apithes azteca, '91, 139.
 Apithes, McNeilii, '91, 138.
 Apithes quadrata, '91, 139.
 Aphidius obscuripes, '92, 89.
 Aphidius pallidus, '92, 89.
 Aphis mali, '92, 90.
 Aphis ribes, '92, 90.
 Aphodius fessor, '92, 54.
 Apparatus, demonstration, '00, 115.
 Apparatus, new, for vegetable physiology, '94, 62.
 Aquatic animaleulae in new stations, '96, 271.
 Archaeological discoveries, '91, 26, 93.
 Archaeological map making, '92, 55.
 Archaeological methods, '91, 98.
 Archaeological research, '91, 26.
 Archegonium of *Pinus*, '91, 79.
 Archegonium of *Tsuga*, '91, 79.
 Ardea egretta, '91, 165.
 Argynnis diana, '91, 19; '92, 85.
 Arizona plants, '91, 28.
 Arizona plant zones, '91, 25.
 Arkansas, '91, 15.
 Arkansas, induration of tertiary rocks in, '92, 219.
 Arkansas, relief map of, '95, 56.
 Aromatic chlorides, certain action of potassium sulfhydrate upon, '94, 52.
 Arsenic, absorption of by dead tissues, '93, 268.
 Arthropods, '91, 24.
 Arthur, J.C., '91, 97; '92, 25, 46, 50; '93, 205; '94, 62, 138; '95, 100; '96, 214; '97, 156; '98, 174; '00, 131.
Ascomyetes, '93, 33.
 Ashley, George H., '97, 244.
 Ash of trees, '93, 239.
 Ash, the blue, range of, '94, 107.
 Aspergillus oryzae, '98, 189.
 Aspredinidae, on the presence of an operculum in, '91, 175.
 Aster, '91, 25.
 Astronomical study in Indiana, '91, 24.
 Atkinson, Curtis, '95, 258.
 Autographic method of testing the magnetic qualities of iron, '93, 269.
 Automatic repeater, '91, 34.
 Auxanometer, '92, 46.
 Atteleopterus tarsalis, '92, 91.
 Atmospheric electricity, '91, 26.
 Atomic weight of oxygen, '91, 27.
BACTERIA AND GRAPE SUGAR, '95, 85.
 Bacteria culture, '91, 15.
 Bacteria, description of certain, obtained from nodules of leguminous plants, '00, 157.
 Bacterial diseases, insects in spread of, '99, 68.
 Bacterial diseases of sugar-beet root, '91, 92.
 Bacteriological flora in stables, '96, 172.
 Baker, A. L., '98, 101.
 Baker, P. S., '91, 55; '92, 169; '93, 265.
 Ball, T. H., '94, 54; '96, 72, 73; '97, 249; '98, 227; '99, 165.
 Ball and roller bearings, tests on, '99, 77.
 Ball bearings, some tests on, '98, 80.
 Ballard, H. H., '93, 266; '94, 51.
 Bamberger, E., '91, 58.
 Barrett, J. M., '96, 104.
 Bascanion constrictor, breeding habits of, '91, 106, 119, 120.
 Bascanion, new species of, '97, 204.
 Basidiomycetes, '93, 48.
 Batrachians and reptiles of Wabash County, '94, 80.
 Batrachia of Turkey Lake, '95, 258.
 Bearing-testing dynamometer, '99, 83.
 Bedford limestone, '96, 65.
 Beeson, C. H., '93, 68, 76.
 Beet-root, diseases of, '91, 92.
 Bennett, L. F., '97, 258; '98, 283; '99, 164.
 Benton, G. W., '94, 43; '95, 90; '96, 62; '98, 62.
 Benzoin, condensation with acetone, '91, 47.
 Benzoin, hydrazones of, '93, 266.
 Beta-nitro-para-toluic acid, '91, 27.
 Bibliography, botany, '93, 20.
 Bibliography, fishes, '93, 71.
 Bibliography, geology, '93, 156.
 Bibliography of Locustidae, '92, 94.
 Bibliography, mammals, '93, 120.

- Bibliography, mollusca, '93, 142.
 Bibliography, ornithology, '93, 108.
 Bicycle wheel as a gyroscope, '00, 91.
 Bigney, A. J., '91, 151; '94, 131, 135; '95, 106,
 108; '96, 274; '99, 52.
 Biological stations, '91, 19, 172.
 Biological station, a new, and its aim, '94, 34.
 Biological station, first report of, '95, 203.
 Biological station, plans for, '98, 55.
 Biological survey, '93, 13.
 Biological surveys, '91, 18, 76.
 Biological survey, suggestions for, '93, 191.
 Biological survey of Indiana, '92, 48.
 Biological survey of Milan pond, '96, 274.
 Biology, '93, 224.
 Birds, act for protection of, see act.
 Birds of Brown County, preliminary list of,
 '94, 68.
 Birds, destruction of, '91, 16.
 Birds of 1891, notes on, '94, 73.
 Bird ferocity, '97, 206.
 Birds, Indiana, '91, 164, 166.
 Birds of Indiana, '95, 162.
 Bird migration, '91, 19.
 Birds near Richmond, Ind., '97, 183.
 Birds, notes on, '93, 116.
 Birds observed in the Sawtooth Mountains,
 '94, 80.
 Birds of Wabash County, '94, 80; '95, 148.
 Birds of Western Texas and Southern New
 Mexico, '92, 61.
 Birge, A., '95, 244.
 Bison, skull of fossil, '99, 178.
 Bitting, A. W., '93, 69; '94, 80; '95, 135, 138;
 '96, 172; '97, 78.
 Bivalves, fresh-water, '93, 152.
 Black racer, '91, 106, 119, 120.
 Blake, E. M., '96, 87.
 Blarina brevicauda, '91, 162.
 Blarina cinerea, '91, 163.
 Blarina parva, '91, 163.
 Blarina platyrhinus, '91, 163.
 Blatchley, W. S., '92, 92, 153, 165; '93, 69, 199,
 231; '94, 68; '96, 54, 130.
 Blatta americana, '92, 157.
 Blatta flavocincta, '92, 161.
 Blatta germanica, '92, 162.
 Blatta orientalis, '92, 156.
 Blatta pennsylvanica, '92, 158.
 Blattidae of Indiana, '92, 153.
 Blattidae, synopsis of genera of, '92, 155.
 Blind animals of Mammoth Cave, some notes
 on, '94, 80.
 Blind fishes, '91, 24; '97, 230.
 Blind fishes, ancestors of, '91, 24.
 Blind fish, new, '97, 231.
 Blind rat of Mammoth Cave, '98, 253.
 Blissus leucopterus, '92, 86.
 Blood corpuscles of very young human em-
 bryo, '94, 135.
 Blood sinuses, in reptilian head, '98, 228.
 Blood studies, formalin as reagent in, '98,
 222.
 Blue gills, destruction of, '96, 303.
 Blue jay, '91, 21.
 Bobolink in Indiana, '96, 227.
 Boetomus sp., '92, 91.
 Bolley, H. L., '92, 50.
 Botanical apparatus, '97, 156.
 Botanical division of state biological survey,
 report of progress, '94, 66.
 Botanical field work in Idaho, '92, 35.
 Botanical literature in State Library, '95, 102.
 Botany, '93, 14, 232.
 Botany, a proposed new systematic of N. A.,
 '94, 133.
 Botany, bibliography of, '93, 20.
 Botany, systematic, '91, 18.
 Botrychium, '91, 17, 27.
 Botrychium, sporangium, an apical growth,
 '91, 79.
 Bowlder, an interesting, '99, 162.
 Bowlder belts, a theory to explain the West-
 ern Indiana, '00, 192.
 Brachiopoda, '91, 68.
 Bracon agrili, '92, 89.
 Bracon diastatae, '92, 89.
 Bracon phaeidis, '92, 89.
 Bracon sp., '92, 89.
 Bradley, M. C., '98, 117.
 Branchipus, '91, 22.
 Branchysorex brevicaudatus, '91, 163.
 Branchysorex harlanii, '91, 163.
 Branner, J. C., '93, 223; '94, 54.
 Brannon, M. A., '92, 35; '93, 237; '98, 291.
 Bray, W. L., '92, 48.
 Bread, pure yeast in, '97, 62.
 Bread, salt-rising, '94, 126.
 Break shoes, railway, '00, 100.
 British Columbian glaciers, '92, 20.
 Brown, Charles C., '94, 40.
 Brown County, preliminary list of birds of,
 '94, 68.
 Brown, W. V., '91, 64.
 Bruehus exiguum, '92, 91.
 Bruner, Henry L., '97, 203, 204, 205; '98, 228,
 229.
 Bryan, W. L., '94, 42.
 Bryophyta, '93, 64.
 Buckeye canoe of 1840, '94, 130.
 Buckeye, a Kansas species, '91, 74.
 Buffalo gnats, '91, 31.
 Buffalo in Illinois and Indiana, '91, 155.
 Bufo lentiginosus, '00, 167.

- Building stone, quality of, '91, 66.
 Burial mound in Randolph County, '94, 46.
 Burk, W. E., '96, 113.
 Burrage, Severance, '95, 49, 90; '96, 56; '99,
 61, 68; '00, 157.
 Butler, A. W., '91, 161, 164; '92, 50, 55, 62; '93,
 68, 69, 108, 120, 224; '94, 33, 73, 81; '95, 31,
 162; '96, 227, 244; '97, 175, 180, 198, 201; '99,
 53, 149.
 By-laws of Indiana Academy of Science,
 '92, 8; '93, 8; '94, 10; '95, 17; '96, 12; '97,
 12; '98, 13; '99, 13; '00, 15.
- CACTACEAE, EPIDERMIS AND SPINES,**
 '92, 42.
 Cactaceae, spines of, '91, 19.
 Caeti, evolution among, '93, 262.
 Cactus flora of the Southwest, '91, 92.
 Caetus, the genus, '92, 45.
 Caeus oecanthi, '92, 91.
 Cady marsh, '97, 240.
 Calendar group, '96, 86.
 California viviparous fishes, '91, 19.
 Call, R. Ellsworth, '93, 69, 140, 219, 225; '94, 57,
 58, 80, 139, 140; '95, 109, 135, 246; '96, 46, 54,
 247; '97, 250.
 Cambrus *Pellucidus*, eyes of, '99, 155.
 Campbell, J. L., '91, 98; president's address,
 '92, 15; '94, 39, 47; '98, 72; '99, 85; '00, 83.
 Camphor, a cyclic derivative of, '99, 103.
 Camphoric acid, '93, 267; '94, 52; '95, 89; '97,
 132; '98, 160.
 Car bolsters, formula for deflection of, '98,
 157.
 Carbon dioxide in the urine, '91, 30, 48.
 Carbonic acid in the air, '91, 30.
 Carboxylated derivatives of benzoquinone,
 '91, 27.
 Carolina parakeet, '91, 17.
 Carroll County birds, '91, 19.
 Carroll County fishes, '91, 19.
 Carya alba, '91, 27.
 Carya alba, stomata of, '91, 76.
 Caryoerinus, '91, 67.
 Castoroides, a cranium of, '99, 171.
 Catolaceus *tyloderma*, '92, 91.
 Cave faunas, '97, 229.
 Cave salamander, '00, 167.
 Caves of Missouri and Kentucky, '98, 58.
 Caves and sinkholes, geologic relations of,
 etc., '98, 258.
 Cayleyan eubie, '00, 91
 Cecidomyidae, '92, 124.
 Cedar apples, generic nomenclature of, '00,
 131.
 Cedar Lake, '96, 296.
 Cell, effect of centrifugal force on, '98, 169.
- Cell structures of Cyanophyceæ, '94, 133.
 Century plant, the sugar of, '94, 51.
 Cephalanthus occidentalis, '91, 138.
 Cephalopoda, '91, 68.
 Cereal smuts, resistance of, etc., '93, 64.
 Certain chemical features in the seeds of
 Plantago, Virginiana and Patagonica, '94,
 121.
 Certhia familiaris, '91, 167.
 Ceuthophilus, '92, 140.
 Ceuthophilus brevipes, '92, 148.
 Ceuthophilus divergens, '92, 153.
 Ceuthophilus ensifer, '92, 153.
 Ceuthophilus lapidiculus, '92, 142, 144, 147.
 Ceuthophilus latens, '92, 143.
 Ceuthophilus latusculus, '92, 146.
 Ceuthophilus maculatus, '92, 142, 147.
 Ceuthophilus niger, '92, 153.
 Ceuthophilus stygius, '92, 148.
 Ceuthophilus uhleri, '92, 144.
 Chaetodontidae, '91, 19.
 Chamberlain, F. M., '95, 264.
 Chansler, E. J., '96, 244.
 Chara fragilis, '95, 95.
 Characiniidae, South American, '93, 226.
 Character of well waters in a thickly popu-
 lated area, '91, 56.
 Charadrius squatorala, '91, 165.
 Chemistry, some new laboratory appliances
 in, '94, 51.
 Chipman, W. W., '96, 147.
 Chloranil, '91, 37.
 Chlorine, determination of in waters [natu-
 ral], '92, 169.
 Chlorine estimations, '91, 18, 49.
 Chloroform, '91, 14.
 Chologaster agassizii, and its eyes, '98, 251.
 Christmas meetings, see Meetings Annual.
 Chrysomelidae Tasmanian, '91, 168.
 Cicada canicularis, '92, 117.
 Cicada septendecim, '92, 86, 87.
 Cicada septendecim, distribution of, '98, 225.
 Cincinnati limestone, wave marks on, '94, 53.
 Cincinnati silurian island, '91, 18.
 Circles connected with the triangle, '99, 88.
 Cistothorus stellaris, '91, 164.
 Cladocera of Turkey Lake, '95, 244.
 Clark and Weston cells, '96, 98.
 Clays, '93, 168.
 Clays, white, '93, 224.
 Cleistogamy in *Polygonum*, '91, 92.
 Clinton limestone, '92, 28.
 Clisiocampa disstri, '92, 90.
 Cnicus discolor, '91, 15.
 Coals, '93, 168.
 Coccinellidae Tasmanian, '91, 168.
 Coceothranstes vespertina, '91, 165.

- Cockroach, American, '92, 157.
 Cockroach, German, '92, 162.
 Cockroaches of Indiana, '92, 153.
 Cockroach, oriental, '92, 156.
 Cockroach, Pennsylvania, '92, 158.
 Cockroach, short-winged, '92, 161.
 Cocaine, '91, 14.
 Coefficient of expansion of solids, '91, 25, 26.
 Coke, '93, 169.
 Colaptes, '91, 30.
 Collecting mosses, '91, 14.
 Collection of plants made during year near
 Crawfordsville, '94, '65.
 Collett glacial river, '91, 17.
 Collinear sets of three points, '97, 104.
 Colors of letters, '91, 24.
 Color-pattern of *Etheostoma eaprodes*, '93,
 231.
 Colors of sounds, '91, 24.
 Color variations, '91, 21.
 Columbian exposition and science, '91, 98.
 Columbian museum, '93, 274.
 Committees of Indiana Academy of Sciencee,
 '91, 2.
 Committees, '92, 5; '93, 5; '94, 7; '95, 13; '96,
 6; '97, 8; '98, 9; '99, 9; '00, 10.
 Committees, past, '91, 3.
 Companion plants, '91, 26.
 Composites, germination of, '97, 165.
 Compositeæ of Indiana, general notes, '96
 160.
 Composite, organogeny of, '91, 179.
 Concerning the effect of glycerine on plants,
 '93, 234.
 Condensation of acetone with benzoin, '91,
 47.
 Conger eel, '00, 165.
 Coniferae, '91, 18.
 Conocephalinae, '92, 96, III.
 Conocephalinae, key to genera of, '92, 112.
 Conocephalus, '92, 113.
 Conocephalus crepitans, '92, 118.
 Conocephalus ensiger, '92, 114, 117, 118.
 Conocephalus nebrascensis, '92, 115.
 Conocephalus palustris, '92, 118, 125, 129.
 Conocephalus robustus, '92, 116, 118.
 Constitution, '92, 7; '93, 7; '94, 9; '95, 15; '96,
 10; '97, 10; '98, 11; '99, 11; '00, 13.
 Contents, table of, '91, IV; '92, III; '93, 3;
 '94, 3, '95, 3; '96, 3; '97, 3; '98, 3; '99, 3; '00, 4.
 Contopus borealis, '91, 165.
 Contribution to the flora of Indiana, No. IV,
 '96, 159.
 Contributions to the histology of the Pontederiaceæ, '93, 234.
 Contributions to the life history of Noto-
 thydas, '93, 230.
 Control magnet, '91, 27.
 Convergence, a case of, '98, 247.
 Copper ammonium oxide, '91, 14.
 Copperhead, '91, 107, 108.
 Corallorhiza, problems in, '99, 145.
 Corals, '91, 67.
 Corn cob pentaglucose, '91, 20.
 Corn smut, constituents of, '00, 148.
 Corn smut, fungicides for, '95, 96.
 Cornus, distribution of, '91, 18.
 Correlation of silurian sections in eastern
 Indiana, '94, 54.
 Correspondents, foreign, '96, 19; '97, 21; '98,
 21; '99, 19; '00, 21.
 Coulter, John M., '91, 76; '92, 41, '93, 191, 262,
 274.
 Coulter, Stanley, '91, 92; '92, 41, 49, 50; '93,
 17, 193; '94, 66, 103, 120; '95, 169, 183; '96, 33,
 159, 189, 275; '97, 158, 165; '98, 215; '99, 104,
 112, 116; '00, 136, 143.
 Counter-balance in locomotive drive wheels,
 experimental study of the, '98, 273.
 Cox, Ulysses O., '99, 75.
 Craig, O. J., '92, 55.
 Crambus, zeellus, '92, 90.
 Cray fish, '91, 21, 22.
 Cray fishes of Indiana, '91, 117.
 Cremation, '91, 17.
 Crepidula, '91, 27.
 Crickets, '91, 128.
 Crickets, black-sided, '92, 143.
 Crickets, emmel, '92, 92, 140.
 Crinoidiæ, '91, 68.
 Crossbill, American, '92, 62.
 Crossbill, range of, in Ohio Valley, '92, 62.
 Crossbill, white-winged, '92, 69.
 Crotalidae, '91, 107, 109.
 Croton bug, '92, 102.
 Crowley's Ridge, '93, 219, 224.
 Crustacea, '91, 68.
 Crustaceans of Indiana, '91, 147.
 Crow roosts of Indiana, '97, 175.
 Crow roosts of Indiana and Illinois, '97, 178.
 Crow roosts of Lake County, '98, 227.
 Crushing strength of cylinders, '96, 88.
 Cryptogamic collections, '00, 121.
 Cryptogams, '96, 171.
 Cryptogams, list of, '93, 30.
 Culberly, E. P., '92, 27.
 Culbertson, Glenn, '97, 206, 242; '99, 167.
 Cumings, E. R., '99, 174, 176; '00, 200, 216.
 Cunningham, Alida M., '94, 67, 121; '95, 198;
 '96, 190; '97, 166, 168; '98, 212, 214.
 Cunningham, Clara, '96, 208.
 Cupulifere, the embryology of, '94, 135.
 Curimatinae, '91, 19.
 Cursoria, '92, 154.

- Curtis, Geo. L., '96, 259.
 Curtiss, R. G., '98, 202.
Cuscuta, distribution of, '98, 214.
Cuseuta, scales of, '98, 212.
 Cyanogen, '97, 98.
 Cyanophyceæ, cell structure of, '94, 133.
Cycas, stomates of, '93, 254; '94, 130.
 Cyclic quadrilateral, '00, 91.
Cymatogaster, aberrant follicles in ovary, '98, 229.
Cymatogaster, development of sexual organs of, '94, 138.
Cymatogaster, early stages in, '92, 58.
Cypripedium, poisonous influence of some species of, '94, 136.
Cypripedium spectabile, poisonons effects of, '93, 254.
 Cypress swamps of Knox County, '97, 172.
Cyprinodon, '91, 19.
Cyrtophyllum, '92, 109.
Cyrtophyllum concaevum, '92, 108, 109.
Cyrtophyllum perspicillatum, '92, 110, 152.
- DAIHINIA**, '92, 92.
 Davis, B. M., '95, 45; '96, 259, 260.
 Davis, Chas. E., '96, 172.
 Davis, Sherman, '91, 49; '93, 262, 265; '96, 115.
 Davission, S. C., '00, 99.
 Dead animal tissue, absorption of poison by, '93, 268.
 Dearborn County, '91, 14.
 Decatur County, butterflies, '91, 29; fishes, '91, 29; physical geography of, '91, 28.
 Decorticated stems, absorption of water by, '98, 169.
Decticidinae, '92, 96, 149.
Dectiens dorsalis, '92, 151.
Decticus pachymerus, '92, 150.
 Degeneration illustrated by the eyes of cave fishes, '90, 31.
 Demonstration apparatus, '00, 115.
Dendroica Kirtlandi, Baird, '93, 221.
 Dennis, D. W., '94, 135; '95, 44, 95; '97, 68; '98, 288; '99, 157; '00, 34.
 Denny, W. A., '98, 252.
 Desmids of Crawfordville, '98, 163.
 Detection of hydrocyanic acid, '93, 265.
 Detection of strychnine in exhumed body, '93, 267.
 Determination of valences, '92, 160.
 Development of *Etheostoma caeruleum*, preliminary account of, '91, 135.
 Development of sexual organs of *Cymatogaster*, '94, 138.
 Development of viviparous fishes of California, '91, 159.
- Dextrose, action of ammonia upon, '94, 51.
Diacretus Americanus, '92, 90.
Diaceretus bruniventralis, '92, 90.
Diaceretus websteri, '92, 90.
 Diagrams from iron and steel, '91, 20.
 1,4 Diamino-cyclohexane, '93, 266.
 Diamond fluorescence, '99, 94; '00, 103.
Diastata, n. sp., '92, 89.
 Di-benzyl carbinamine, '91, 27, 28.
 Dickson, Clinton, see W. E. Stone, '92.
Dictyola, the centrosome in, '98, 166.
Diemyctylus viridescens, Hay on, '91, 144.
 Differential invariants, '98, 135.
 Digestibility of the pentose carbohydrates, '91, 57.
Dimeris rufipes, '92, 89.
Diphenylselenon, '96, 114.
Diplodus, '91, 19.
Diplosis tritici, '92, 92.
 Dip of the Keokuk rock at Bloomington, '94, 52.
 Diptera, reared in Indiana, '98, 221.
 Diseases of sugar-beet root, '91, 92.
 Distribution of *Gleditschia triacanthos* and other trees, some facts in, '94, 27.
 Dolan, J. P., '95, 235; '96, 279, 286.
Dolichonyx oryzivorus, '91, 167.
 Dorner, Herman, '99, 116.
Doryphora, 10-lineata, '92, 84.
 Dragon flies of Indiana, additions to, '00, 173.
 Drift deposits, '91, 66, 67.
 Drift, limit of, '91, 15.
 Dryer, Chas. R., '97, 73; '98, 268, 270, 273; '00, 178.
 Dubois County, fishes of, '95, 159.
 Duff, A. Wilmer, '95, 58, 77, 83, 84; '96, 97; '97, 84, 90; '98, 82, 84, 85.
Dynastes tityrus, '92, 86.
- EAGLE LAKE**, '96, 296.
 Earthworks, ancient, near Anderson, Ind., '92, 30.
 Earthquake center, '91, 30.
 Earthquake, the Charleston, Mo., '95, 51.
Ectobia, '92, 155, 161.
Ectobius flavocincta, '92, 161.
Ectobius germanica, '92, 162.
Ectobius lithophilus, '92, 158.
Eburia quadrigeminata, '91, 25.
 Eels of America and Europe, '91, 24.
 Eel question, development of the Conger eel, '00, 165.
 Effect of environment on mass of local species, '93, 226.
 Effect of light on germinating spores of marine algae, '93, 237.

- Egg membrane, '91, 19.
 Eigenmann, C. H., '91, 159, 169, 172, 175; '92, 29, 56, 81; '93, 14, 67, 69, 76, 226; '94, 34, 87, 138; '95, 204, 252, 262, 265; '97, 229, 230, 231, 232; '98, 55, 58, 239, 242, 247, 251, 252, 253; '99, 31; '00, 165, 166, 167.
 Eigenman, Rosa, '91, 159.
 Elasticity constant, '91, 20.
 Elastic fatigue of wires, '94, 50.
 Elastic limit of soft steel, '97, 130.
Elaps fulvus, '91, 151.
 Electric arc, nature of, '97, 100.
 Electric arc, spectrum of, '97, 95.
 Electric current, does high tension of, destroy life? '94, 39.
 Electric currents, strength of, '91, 20.
 Electro-magnet, '91, 26.
 Electrometer, new, '91, 26.
 Electrical oxidation of glycerine, '92, 165.
 Electrical science, '97, 35.
 Electrolytes, temperature coefficient of, '98, 86.
 Elevated beach in Maine, '98, 72.
 Elrod, M. N., '94, 138; '98, 258.
 Embedding material, notes on an, '93, 233.
 Embiotocidae, a review of, '91, 176.
 Embryo human, blood corpuscles of, '94, 135.
 Embryology of the Cupuliferae, '94, 135.
 Embryology of the frog, '94, 135.
 Embryology of the Ranunculaceae, '94, 121.
 Embryo-sac of *Jeffersonia diphyllo*, '94, 131.
Emys concinna, '91, 22.
Emys concinnus, '91, 106.
Emys floridana, '91, 106.
Encyrtus brunneipennis, '92, 91.
Encyrtus elisiocampae, '92, 90.
Encyrtus tarsalis, '92, 91.
Encyrtus websteri, '92, 90.
 Engineering research laboratory, '96, 59.
 Entomology, economic, '91, 20.
 Entomology in high schools, '91, 25.
 Entomologizing in Mexico, '91, 144.
 Environment, Turkey Lake, a unit of, '95, 200.
 Enzyme, relation in seed to growth, '91, 97.
 Epiphysis cerebri, literature of, '96, 259-260.
 Equations, graphical solution of, '91, 57.
 Ericaceae of Indiana, '97, 166.
 Eroding agencies, some minor, '95, 54.
Eritriniae, '91, 19.
 Eskers and Esker lakes, '00, 178.
 Estimation of chlorine by Volhard's plan, '91, 49.
Etheostoma caeruleum, preliminary account of development of, '94, 135.
Etheostoma caprodes, '93, 231.
Etheostoma, variation in, '91, 135.
Etheostoma, variation of, '97, 207.
Eutainia, breeding habit, etc., '91, 109.
Eutainia saurita, '91, 111.
Eutainia sirtalis, '91, 109.
Eupelmus allynii, '92, 91.
 Euthymorphic functions, '96, 87.
 Evans, P. X., '97, 133; '98, 160; '99, 98; '00, 115.
 Evermann, B. W., '92, 29, 56, 73, 78; '93, 68, 120; '94, 80, 81, 90, 103; '95, 126, 131.
 Evidences of man's early existence in Indiana, '92, 49.
 Evolution, '91, 17.
 Evolution, address on, '91, 33, 45.
 Evolution among cacti, '93, 262.
 Evolution and Lebanon beds, '91, 18.
 Evolution of map of Mammoth Cave, '96, 46.
 Exceptional growth of wild rose, '96, 189.
 Exhumed body, detection of strychnine in, '93, 267.
 Experimental study of counter-balance in locomotive drive wheels, '93, 273.
 Exploration in Western Canada, '92, 56.
 Extinct fauna of Lake County, '91, 54.
 Extraction of xylan from straw, '92, 168.
- FAUGHT, JOHN B., '97, 112.
 Fault structure in Indiana, '97, 244.
Faunas, cave, '97, 229.
Fauna, river and island, '91, 83.
 Fayette County, adventitious plants of, '93, 258.
 Fellows, '93, 9; '94, 11; '95, 18; '96, 13; '97, 13; '98, 14; '99, 14; '00, 16.
 Fellows, honorary, '94, 11.
 Fermentation, ratio of alcohol to yeast, '95, 92.
 Ferric bromide, action of zinc ethyl on, '94, 51.
 Ferric chloride, action of zinc ethyl on, '94, 51.
 Ferris, Carleton, G., '97, 137.
 Fessenden, R. A., '92, 25, 26.
 Field and home crickets, '91, 132.
 Field meeting of Indiana Acad. of Sci., '91, 9; '92, 13; '94, 16; '95, 16; '96, 32; '97, 33; '98, 34; '99, 30; '00, 33.
 Filtration, '96, 63.
 First report of Biological station, '95, 203.
 Fish, a new oceanic, '00, 166.
 Fish fauna of Wabash County, additions to, '94, 68.
 Fish, taking for scientific purposes, '98, 7; '99, 7; '00, 8.
 Fisher, C. O. and A. D., '96, 296.

- Fisher, E. M., '91, 79; '92, 45.
 Fishes, Aspredinidae, on the presence of an operculum in, '91, 175.
 Fishes, bibliography of, '93, 71.
 Fishes, development of the viviparous fishes of California, '91, 159.
 Fishes, dispersion of, '91, 24.
 Fishes, distribution of, '91, 23.
 Fishes in Indiana, an addition to, '00, 167.
 Fishes, list of, '93, 76.
 Fishes, mimicry in, '94, 86.
 Fishes of Dubois County, '95, 159.
 Fishes of Missouri basin, '95, 126.
 Fishes, rods and cones in retina of, '98, 239.
 Fishes of Turkey Lake, '95, 252.
 Fishes of Wabash County, '93, 229.
 Flather, J. J., '96, 79, 93.
 Fletcher, Wm. B., '99, 46.
 Floral decorations, '91, 21.
 Flora of Hamilton and Marion Counties, '94, 156.
 Flora of Indiana, additions to, '00, 136.
 Flora of Indiana, '97, 158.
 Flora of Indiana, contributions to, No. IV, '96, 159; '99, 104.
 Flora of Lake Cieott and Lake Maxinkuckee, notes on, '96, 116.
 Floras, Arizona, '91, 97.
 Floras, Florida, '91, 83.
 Floras, Henry County, '91, 76.
 Floras, Mt. Orizaba, '91, 80.
 Floras, Putnam County, '91, 89.
 Floras, western plants at Columbus, Ohio, '91, 94.
 Florida ferns, '91, 30.
 Florida gopher, '99, 46.
 Florida, shell mound, '94, 48.
 Florideae, the, notes on, '94, 127.
 Flour, micro-organisms in, '97, 137.
 Flowering plants of Wabash County, '94, 66.
 Fluorescence diamond, '00, 103.
 Foley, Arthur L., '94, 50; '95, 67; '97, 95, 97, 100; '98, 74; '99, 94; '00, 97, 99, 103.
 Foreign correspondents, '96, 19; '97, 21; '98, 21; '99, 19; '00, 21.
 Forestry, exhibit of Indiana at Columbian Exposition, '92, 41.
 Forests, distribution of certain trees, '91, 92.
 Forests, unused resources, '91, 92.
 Formalin, apparent deterioration of, '00, 119.
 Formalin, field experiments with, '98, 62.
 Formalin on seed, '97, 144.
 Forms of nitrogen for wheat, '91, 55.
 Fossils in Colorado, '91, 17.
 Fossils, some new Indiana, '94, 54.
 Fovea, the, '96, 304.
 Franklin County, the swamps of, '94, 58.
 Fresh-water bivalves, '93, 152.
 Fresh-water univalves, '93, 150.
 Frog, the embryology of, '94, 135.
 Functions of spinal cord from clinical study, '94, 35.
 Fungicide for corn smut, '95, 96.
 Fungi, connecting forms among polyporoid, '91, 92.
 Fungi imperfecti, '93, 43.
 Fungus, plum leaf, '91, 14.
 Furfurol, '91, 29.
 GALVANOMETER, construction of, '92, 20.
 Galvanometer, new, '97, 127.
 Game and fish, propagation and protection of, see act to protect, etc.
 Gametophyte of Marchantia, '98, 166.
 Garden of birds and botany, '98, 53.
 Garter snakes, breeding habits, etc., of, '91, 109, 112.
 Gas, '93, 168.
 Gaseous medium, effect of on the electro-chemical equivalent of metals, '94, 50.
 Gasteropoda, '91, 68.
 Gastromyetes, '93, 63.
 Guatemalan Compositae, '91, 28.
 Germinating spores of marine algae, effect of light on, '93, 237.
 Genera, origin of, '91, 24.
 Gentianaceae of Indiana, '97, 168.
 Geodesic line of the space, '00, 99.
 Geographical distribution of Viviparidae, '93, 225.
 Geography and natural science, '97, 73.
 Geology, '93, 219.
 Geology, bibliography of, '93, 156.
 Geology, town, '91, 14.
 Geologist, training of, '91, 15.
 Geometry, bibliography of, '98, 117.
 Geometrical propositions, '91, 30.
 Geometry of Simson's line, '98, 101.
 Geometry of the triangle, a proposed notation for the, '99, 86.
 Geothlypis formosa, '91, 166.
 Germ plasm, continuity in vertebrata, '91, 168.
 Ghost fishes, '91, 20.
 Glacial drift of Jasper County, observations on, '94, 43.
 Glacial erosion, Richmond, '92, 27.
 Glacial jugs, '92, 28.
 Gleditschia triacanthos, and other trees, some facts in distribution of, '94, 27.
 Glick, U. F., '94, 48.
 Glycerine, electrical oxidation of, '92, 165.
 Glycerine on plants, effects of, '93, 234.
 Glyphina eragrostidis, '92, 90.

- Glypta sp., '92, 91.
 Gold, '93, 168.
 Golden, Katherine E., '91, 92; '92, 37, 46; '93,
 235; '94, 61, 126; '95, 46, 92; '96, 184; '97, 62;
 '98, 189; '99, 129, 141; '00, 157.
 Golden, M. J., '95, 48, 100; '98, 80; '99, 77, 83.
 Goldsborough, W. E., '95, 79; '96, 97.
 Gordius, '92, 124.
 Goss, W. F. M., '92, 24; '93, 271, 273; '94, 39;
 '95, 75; '96, 59, 88; '98, 147, 149.
 Grandjean's method, modification of, '92,
 166.
 Grant beaver, '91, 26.
 Grape sugar, effect on bacteria, '95, 85.
 Graphic methods in elementary mathematics, '00, 90.
 Graphical solution of the higher equations, '91, 57.
 Grasshoppers, black-legged, '92, 135.
 Grasshoppers, black-sided, '92, 125.
 Grasshoppers, common meadow, '92, 130.
 Grasshoppers, cone-headed, '92, 113.
 Grasshoppers, green, '92, 92, 112.
 Grasshoppers, lance-tailed, '92, 128.
 Grasshoppers, shield-back, '92, 150.
 Grasshoppers, slender meadow, '92, 114.
 Grasshoppers, spotted wingless, '92, 142.
 Gravitational attraction, A. W. Duff, '95, 58.
 Gray, Thos., '92, 20, 26; '93, 268, 269; '94, 50;
 '97, 35.
 Great lakes, '91, 29.
 Green, R. L., '91, 65.
 Gregg, J. C., '00, 91.
 Grinnellia Americana, '92, 35.
 Grosbeak, evening, '91, 16.
 Growth in the length and thickness of petiole
 of Richardia, '93, 235.
 Gryllidae, '91, 126, 127, 128.
 Gryllidae of Indiana, '91, 126.
 Gryllidae, key to family, '91, 12.
 Gryllotalpa, '91, 128, 129, 130.
 Gryllotalpa borealis, '91, 131.
 Gryllotalpa brevipennis, '91, 130.
 Gryllotalpa Columbiana, '91, 131.
 Gryllotalpa longipennis, '91, 131.
 Gryllus, '91, 128, 132, 133.
 Gryllus abbreviatus, '91, 130, 132, 137.
 Gryllus luctuosus, '91, 133.
 Gryllus Pennsylvanicus, '91, 134.
 Guaymas, fishes of, '91, 23.
 Guillemot, Brunnich's, '97, 180.
 Gyroscope, the bicycle wheel as a, '00, 91.
- HABITS OF TURTLES, '93, 224.
 Hadenocerus cavernarum, '92, 153.
 Hadley, Alden H., '97, 183.
 Haemoglobin, '95, 106.
- Haldea, breeding habits, etc., of, '91; 120.
 Halids, vapor densities, '91, 14.
 Hamilton County, flora of, '94, 156.
 Hansell, George, '98, 239.
 Harbor at the south end of Lake Michigan,
 '00, 83.
 Hathaway, A. S., '91, 57, 63, 65; '92, 20; '96, 85;
 '97, 117; '98, 88.
 Hatt, W. K., '96, 68, 88, 97; '97, 130, 131; '98
 157.
 Hay, O. P., '91, 32, 106, 120, 144; '92, 62, 72; '93,
 68, 69.
 Hay, W. P., '91, 147; '92, 94, 144; '93, 69.
 Heacock, E. H., '94, 120.
 Heat, effect of, on muscle, '95, 108.
 Heating effects of coals, '96, 115.
 Height of the atmosphere, '91, 29.
 Heiney, W. N., '00, 197.
 Heloderma suspectum, '91, 152.
 Henry County flora, '91, 26.
 Henry County prehistoric earth works, '91,
 98.
 Hepaticae, '93, 64.
 Herbaceous plants, seedlings of, '99, 116.
 Herpestomus plutellae, '92, 90.
 Heronries, '97, 198.
 Hessler, Robert, '92, 89; '93, 258; '96, 116; '97,
 65; '0, 74.
 Heterodon platirhinos, breeding habits, etc.
 of, '91, 114.
 High schools, relation of, to biological sur-
 vey, '93, 199.
 Histeresis curves, '91, 65.
 Hoffmannseggia, the genus, '91, 29, 79.
 Hognosed snake, breeding habits, etc., of,
 '91, 114, 118.
 Holostomidae, '96, 224.
 Holtzman, C. L., '91, 79.
 Homoporus sp., '92, 91.
 Hopkins seaside laboratory, '95, 45.
 Host plants, additional list of, '94, 153.
 House boats for biological work, '99, 75.
 Hoy's white fish, or moon-eye, rediscovery
 of, '94, 103.
 Hubbard, Geo. C., '91, 77.
 Hubbard, J. W., '92, 63.
 Hudson River or Cincinnati group, extent of,
 '91, 68.
 Hudson River deposits, '92, 26.
 Hudson River, location of upper limits of,
 '91, 69.
 Hudson River, Owen, Prof. Richard, views
 of, '91, 69.
 Humus in soils, '92, 166.
 Huston, H. A., '91, 55, 57; '92, 166, '94, 51, 52;
 '96, 104, 112.
 Hydra fusca, '91, 21.

- Hydraulic cement, '93, 170.
 Hydrazones of benzoin, stereoisomerism of, '93, 266.
 Hydrocyanic acid, detection of, '93, 265.
 Hydrographic basins of Indiana, '96, 247.
 a-Hydroxy-dihydro-eiscampholytic acid, '98, 160.
Hylesinus trifolii, '92, 84.
 Hymenomycetes, '93, 58.
 Hymenopterous parasites reared in Indiana, list of, '92, 89.
 Hypnotism, '91, 17.
Hypoderus columbae, '92, 92.
 Hypsometric distribution of Viviparidae, '93, 225.
- ICE FORMATION OF LAKE WAWASEE.**, '96, 286.
 Ice sheet in Indiana, recession of, '00, 184.
 Ichthyology, '93, 71.
 Ichthyological features of the Black Hills, '92, 73.
 Ichthyological survey, Illinois, '00, 170.
 Idaho lakes, the red fish of, '94, 99.
 Illinois ichthyological survey, methods and extent of, '00, 170.
 Impact, study of, '97, 90.
 Inarching of oak trees, '97, 171.
 Indian camping sites near Brookville, '92, 54.
 Indiana Academy of Science, active members of, see members.
 Indiana Academy of Science, by-laws of, see by-laws.
 Indiana Academy of Science, committee of, see committees.
 Indiana Academy of Science, complete list of officers, see officers.
 Indiana Academy of Science, constitution of, see constitution.
 Indiana Academy of Science, fellows of, see fellows.
 Indiana Academy of Science, non-resident members, see members.
 Indiana Academy of Science, possible relation of, '96, 54.
 Indiana Academy of Science, present officers of, see officers.
 Indiana Academy of Science, work and purposes of, '95, 7.
 Indiana, a century of changes, president's address, '95, 31.
 Indiana Aerididae, '91, 15.
 Indiana additions to flora of, '00, 126.
 Indiana birds, '91, 16, 17, 20, 25, 164; '95, 162.
 Indiana birds, notes on, '99, 149.
 Indiana bird list, '96, 244.
- Indiana, botanical work in, '91, 17.
 Indiana butterflies, '91, 15, 31.
 Indiana caves, '96, 54.
 Indiana conchology, '91, 26.
 Indiana crayfishes, '91, 147.
 Indiana crow roosts, '97, 175.
 Indiana crustaceans, '91, 22, 147.
 Indiana cryptogams, additions to, '96, 171.
 Indiana dragonflies, '00, 173.
 Indiana earthquake, '91, 15.
 Indiana entomology, '91, 14.
 Indiana, Ericaceae of, '97, 166.
 Indiana erosion, '91, 28.
 Indiana, fault structure, '97, 244.
 Indiana feeding material, '91, 23.
 Indiana fishes, '91, 23; '60, 167.
 Indiana forest trees, '91, 18.
 Indiana flora, additions to, '91, 22, 23.
 Indiana, flora of, '97, 158.
 Indiana flora, origin of, '91, 17.
 Indiana flora, peculiarities of, '91, 18.
 Indiana fungi, '91, 20.
 Indiana, Gentianaceae of, '97, 168.
 Indiana geodetic survey, '91, 17.
 Indiana geography, '91, 28.
 Indiana, geological notes on, '97, 262.
 Indiana geology, '91, 15.
 Indiana, geological section of, '97, 210.
 Indiana Gryllidae, '91, 15.
 Indiana heronries, '97, 198.
 Indiana herpetology, '91, 24.
 Indiana, hydrographic basins and molluscan fauna of, '96, 247.
 Indiana insects, injurious, '91, 31.
 Indiana invertebrate zoölogy, '91, 23.
 Indiana lakes, '91, 18.
 Indiana lichens, '91, 19.
 Indiana mammals, '91, 20; '94, 81.
 Indiana mammalogy, '91, 28.
 Indiana meteorology, '91, 28.
 Indiana mildews, '91, 17, 164; '98, 291.
 Indiana mollusca, '95, 135.
 Indiana Orchidaceae, '95, 198.
 Indiana ornithology, '91, 16.
 Indiana parasites, '95, 168.
 Indiana phanerogams, '95, 160, 183.
 Indiana physics, '91, 26.
 Indiana plant rusts, '98, 174.
 Indiana reptiles and amphibians, '91, 16.
 Indiana roads, the trouble with, '98, 75.
 Indiana shrews, '91, 17, 164.
 Indiana, star-nosed mole in, '91, 19.
 Indiana, statistical investigations, '91, 19.
 Indiana University biological station, '95, 204.
 Indiana, wood ibis in, '91, 19.
 Indigenous plants, water cultures of, '94, 60.

- Induration of tertiary rocks in Northeastern Arkansas, '93, 219.
 Infection by bread, '95, 46.
 Infection, contest against, '91, 28.
 Infiltrating and staining in toto of heads of *Vernonia*, method of, '94, 120.
 Infinite system of forms, '97, 80.
 Infinity and zero in algebra, '91, 20.
 In memoriam, '97, 20; '98, 20.
 Inoculation of animals with yeasts, '96, 186.
 Insect increase and decrease, '91, 31.
 Insects, injurious, earliest published reference to, '91, 168.
 Insects of Tasmania, '91, 68.
 Integrals, reduction of, '97, 112.
 Integrations, some theorems of, '91, 63.
 Invertin fermentation, '91, 30.
 Ionization experiments, '99, 98.
 Iron, autographic method of testing magnetic qualities of, '93, 269.
Ischnoptera, '92, 155, 158.
Ischnoptera bivittata, '92, 162.
Ischnoptera pennsylvanica, '92, 158.
Ischnoptera unicolor, '92, 160.
Isoetes macrospores, '91, 17.
Isopyrum biforme, symbiosis of, '93, 254.
Isosoma in Indiana, '98, 227.
Isthmus of Panama, '91, 24.
- JASPER COUNTY, observations on glacial drift, '94, 43.
 Jefferson County birds, '91, 23.
 Jefferson County butterflies, '91, 22.
 Jefferson County cystidians, '91, 23.
 Jefferson County wasps, '91, 23.
Jeffersonia diphylla, embryo-sac of, '94, 131.
 Jenkins, J. N., '94, 66.
 Johnson County geo. section, '91, 17.
 Johnnott, E. S., Jr., '00, 110.
 Jones, Lee H., '97, 257.
 Jones, Walter, '92, 166; '94, 52.
 Jones, W. J., Jr., '96, 112.
 Jordan, D. S., '91, 24; '93, 71.
 Juday, Chancey, '96, 287.
 Jug rock, '98, 268.
Juglans nigra, '91, 25.
Junco hyemalis, '91, 164.
- KAKERLAC AMERICANA, '92, 157.
Kakerla orientalis, '92, 156.
 Kankakee River, '91, 39.
 Kankakee salamander, '00, 165.
 Kankakee Valley, '91, 39; '98, 277.
 Karyokinesis in the embryo-sac, '98, 164.
 Katydids, '92, 92, 97.
 Katydid, broad-winged, '92, 109.
 Katydid, fork-tailed, '92, 101.
- Katydid, larger angular-winged, '92, 107.
 Katydid, narrow-winged, '92, 102.
 Katydid, oblong leaf-winged, '92, 104.
 Katydid, oblique-winged, '92, 107.
 Katydid, round-winged, '92, 105.
 Katydid, true, '92, 109.
 Katydid, Uhler's, '92, 106.
 Kelanea, '91, 23.
 Kellerman, W. A., '91, 74.
 Kellicott, D. S., '91, 168; '95, 242, 251.
 Kendrick, Arthur, '98, 86; '00, 109.
 Kentucky fishes, '91, 31.
 Keokuk group, '91, 14.
 Keokuk rocks, dip of, at Bloomington, '94, 52.
 Ketols condensation with acetophenone, '91, 46.
 Kettle holes, '95, 55.
 Kindle, Edward M., '92, 72; '93, 156; '94, 49, 52, 54, 68.
 Kirtland's warbler, '93, 224.
 Kizer, E. L., '98, 222.
 Knipp, Chas. T., '95, 62; '97, 59; '00, 90, 91, 95.
 Knobstone formation in Indiana, '98, 283.
 Knobstone group, '97, 253, 257, 258.
 Knobstone group, distribution of, etc., '98, 289.
 Knox County, cypress of, '97, 172.
 Knox County plants, '91, 29.
- LABES HYPHLOCYBAE, '92, 91.
 Laboratory, a new, '97, 65.
 Laboratory, botanical, working shelves for, '94, 61.
 Lagodon, '91, 19.
 Lake Cicott and Lake Maxinkuckee, notes on flora of, '96, 116.
 Lake Cicott, location and topography, '96, 117.
 Lake County, '96, 73.
 Lake County, extinct fauna of, '94, 54.
 Lake Maxinkuckee, '97, 56; '98, 70.
 Lake Maxinkuckee, flora of, '00, 124.
 Lake Maxinkuckee, location and topography, '96, 118.
 Lake Michigan, '96, 72.
 Lake Ontario, angling in, '94, 81.
 Lake region of Northeastern Indiana, general physiographic conditions, '96, 149.
 Lake region of Northeastern Indiana, notes on the flora of, '96, 147.
 Lake region of Northeastern Indiana, outlines of, '96, 147.
 Lake region of Northeastern Indiana, physiographic changes, '96, 150.
 Lake region of Northeastern Indiana, some general observations, '96, 157.
 Lammellibranchiata, '91, 68.

- Land forms of mollusca, '93, 148.
 Large, Thomas, '96, 296, 303; '00, 119, 170.
 Lavoisier, '94, 17.
 Law concerning publication of proceedings,
 '94, 4; '95, 4; '96, 4; '97, 4; '98, 4; '99, 4;
 '00, 5.
 Lead nitrate, dissociation potentials of neu-
 tral solutions of, '00, 109.
 Leersia oryzoides, '92, 126.
 Lendi, J. Henry, '97, 127.
 Leonids of 1898, '98, 151.
 Leonids of 1900, '00, 73.
 Lepidoptera carnivorous, '91, 168.
 Lepidoptera, scales of, '91, 30.
 Limptius testaceus, '91, 162.
 Leptysma marginicollis, '92, 118.
 Lesser striped ground cricket, '91, 136.
 Leuciscus, variation in, '94, 87.
 Life, A. C., '96, 2-8.
 Life, does high tension of electric current
 destroy? '94, 39.
 Liquid, agitation of, '98, 85.
 Liquids, surface tension of, '95, 67.
 Lilium candidum, endosperm, haustoria in,
 '98, 168.
 Lilly herbarium, '92, 50.
 Limneria flavigineta, '92, 90.
 Linear associative algebra, Pierce's, '95, 59.
 Linear relation, etc., '98, 154.
 Linseed oil, iodine absorption of, '98, 160.
 List of additions to State flora, '94, 147.
 List of birds, '93, 116.
 List of cryptogams, '93, 30.
 List of fishes, '93, 76.
 List of mammals, '93, 124.
 List of mollusca, '93, 145.
 Liverworts, '91, 26.
 Lixus maejer and concavus, '91, 31.
 Loantharia rugosa, '91, 28.
 Locomotive boiler coverings, '98, 149.
 Locomotive combustion, '99, 96.
 Locomotice drive wheels, experimental
 study of action of counterbalances in, '93,
 273.
 Locomotive furnaces, '95, 65.
 Locomotive, value of the steam pipe within
 the smoke box of, '93, 271.
 Locusta curvicauda, '92, 99.
 Locusta fasciata, '92, 119.
 Locusta oblongifolia, '92, 104.
 Locustidae, bibliography of, '92, 94.
 Locustidae of Indiana, '92, 92, 97.
 Locustidae, synopsis of sub-families of, '92,
 96.
 Long-winged crickets, '91, 133.
 Long-winged mole cricket, '91, 131.
 Long-winged striped cricket, '91, 136.
 Lotz, Dumont, '94, 51.
 Louisville filtration experiments, '96, 63.
 Loxia curvirostra minor, '92, 62; '91, 165.
 Loxia leucoptera, '92, 69.
 Loxotenus clemensianna, '92, 89.
 Luten, D. B., '98, 75; '99, 61.
 Lyons, Robert E., '91, 46; '95, 85, 88; '96, 114.
 Ly. iphlebus encyrtaphidis, '92, 90.
 Ly. iphlebus eragrostaphidis, '92, 90.
 Lysiphlebus multiarticulatus, '92, 89.
 Ly. iphlebus my-i, '92, 90.
 Lysiphlebus ribaphidis, '92, 90.
 Lysiphlebus tritici, '92, 90.
 MACKINAC ISLAND, '91, 29.
 Madison, '91, 23.
 Magnetic permeability, '91, 17.
 Magnetic qualities of iron, autographic
 method of testing the, '93, 269.
 Malaclemys genus, geographica, '91, 121.
 Malaclemys genus, observations on, '91, 120,
 126.
 Malaclemys ocellifera, '91, 121.
 Malaclemys pseudogeographica, '91, 121.
 Mammalia, '91, 67.
 Mammals, bibliography of, '93, 120.
 Mammals of Indiana, '94, 81.
 Mammals, list of, '93, 124.
 Mammoth Cave, '96, 46.
 Mammoth Cave, some notes on blind ani-
 mals of, '94, 80.
 Man an evolution, '91, 28.
 Map illustrating dividing line between in-
 sect faunas, '92, 82.
 Map tortoise, observation on, '91, 121.
 Marchantia polymorpha, '92, 41.
 Marine algae, effect of light on germinating
 spores of, '93, 237.
 Marion County, flora of, '94, 156.
 Marsters, V. F., '92, 27, 29; '93, 14, 156; '94, 54;
 '99, 54; '00, 194.
 Martin, G. W., '91, 79; '92, 49; '94, 127, 133.
 Mass of local species, effect of environment
 on, '93, 226.
 Mass and molecular motion, '94, 138.
 Mathematical definitions, '98, 147.
 Mathematics in botany, '92, 37.
 Matterhorn, top of, '91, 24.
 Maumee glacier, '91, 19.
 Maxima and minima, '91, 30.
 Maxinkuckee, flora of lake, '00, 124.
 McBeth, Wm. A., '98, 72; '99, 157, 162; '00, 184,
 192.
 McBride, R. W., notes on Indiana birds, '91,
 166; '93, 232.
 McBride, W. F., '92, 166.
 McCook, H. C., '93, 69.

- McCoy, H. N., '92, 165.
 McDougal, D. T., '91, 97; '92, 35, 41; '93, 233,
 254; '94, 60, 130, 136; '96, 224; '97, 166.
 McGinniss' universal solution, '00, 88.
 Means, J. H., structural geologic work of, in
 Arkansas, '94, 54.
 Measurement of strains induced in plant
 curvatures, '94, 130.
 Mechanical computer, '96, 88.
 Mees, C. Leo., '94, 50.
 Meetings, annual, '92, 15; '93, 205; '94, 16;
 '95, 30; '96, 31; '97, 32; '98, 33; '99, 30; '00,
 28.
 Meetings, see Field meetings.
Megalonyx jeffersonii, mounting of, '00, 166.
Megaspilus niger, '92, 90.
 Members, '91, 5; '92, 9; '93, 10; '94, 12; '95, 18;
 '96, 14; '97, 13; '98, 15; '99, 15; '00, 17.
 Members, fellows, see Fellows.
 Members, non-resident, '91, 5; '92, 9; '93, 10;
 '94, 12; '95, 19; '96, 14; '97, 14; '98, 15; '99,
 15; '00, 17.
Meraporus bruchiborus, '92, 91.
 Mercury, measuring the absolute dilatation
 of, '00, 99.
 Metals, effect of the gaseous medium on the
 electro-chemical equivalent of, '94, 50.
 Methylation of halogen amides with diazo-
 methane, '00, 116.
 Mexico, '91, 15.
 Mexico, entomologizing in, '91, 144.
 Meyer, J. B., '97, 90.
 Meyer, J. O., '98, 160.
Microcentrum, '92, 98, 107.
Microcentrum affiliatum, '92, 107.
Microcentrum laurifolium, '92, 107.
Microcentrum retinervis, '92, 107, 152.
 Microcephaly, case of, '97, 68.
 Microscope slides, '95, 105.
 Micro-organisms, '97, 137, 143.
 Microscopical slides, libraries of, '99, 52.
 Microtome, a new compound, '91, 77.
 Middleton, W. G., '99, 178.
 Migration of western plants, '91, 74.
 Mikels, Mrs. Rosa Redding, '91, 76.
 Milk inspection, '95, 90.
 Milk, micro-organisms in, '97, 143.
 Miller, John A., '97, 80; '98, 151, 154; '00, 73.
 Mimicry in fishes, '94, 86.
 Minerals, '93, 170.
 Minor plants, some of the, '91, 25.
 Missouri basin, fishes of, '95, 126.
 Mitchell, G. L., '98, 229.
 Modern geographical distribution of insects
 of Indiana, '92, 81.
 Moenkhaus, W. J., '93, 231; '94, 86, 135; '95,
 159, 278; '97, 207.
 Mollusca, '93, 140, 145.
 Molluscan fauna of Indiana, '96, 247.
 Mollusks from Northern Indiana, '95, 246.
 Mohawk Valley, stream gradients of the,
 '99, 176.
 Mole crickets, '91, 129.
 Mole, eye of the, '99, 146.
 Monroe County, '91, 15, 16.
Monstera deliciosa, '91, 31.
 Montgomery County, '91, 14.
 Montgomery, H. T., '98, 277.
 Moore, Joseph, '92, 26, 27; '94, 46; '96, 75,
 277; '99, 171, 178; '00, 81.
 Moore, J. E., '91, 65.
 Moorehead, Warren K., '91, 93.
 Morainal stone quarry, '96, 75.
 Morley, Fred, '96, 88.
 Morse, A. P., '92, 126.
 Mosquitoes and malaria, '00, 74.
 Mosses, '91, 14.
 Mottier, D. M., '91, 79; '92, 41, 48; '94, 121,
 135; '98, 164, 166, 168, 169.
 Mould, movement of protoplasm in hyphae
 of, '00, 157.
 Mound, burial in Randolph County, '94, 46.
 Mounds of Vanderburgh County, '96, 68.
 Mount Orizaba, '91, 28; '92, 29.
 Mouse's brain, cortex cells of, '99, 157.
 Mucor, '91, 14.
 Multiplication, '97, 103.
 Multiplication, note on, '98, 101.
Murgantia histrionica, '92, 86.
 Muscatatuck at Vernon, Ind., '98, 270.
 Musci, '93, 65.
 Musk Ox, '91, 26.
 Mycetozoa, affinities of, '98, 209.
 Mycetozoa, list of, '97, 148.
 Mycological notes, Wells and Whitley Coun-
 ties, '00, 161.
 Mycorhiza, '91, 18.
 Myriapods, '91, 15, 24, 25.
Myrmecophila, '91, 144.
Myrmelon absinthius, '91, 132.
Mysus ribis, '92, 90.
 Myxomycetes, '93, 30.
- NARROW WINGED TREE CRICKET, '91,
 143.
 National herbarium, '91, 18.
 Native plants, germination and seedlings of,
 '98, 215.
 Native trees, unrecognized forms of, '99, 112.
 Natural gas, '97, 133.
 Natural gas and petroleum, '91, 27.
 Naylor, J. P., '91, 65.
Necturnus lateralis, '91, 31.
 Nef, J. U., '96, 115.

- Nemotognathi of South America, '91, 19.
 Nematoïd worm in an egg, '98, 258.
Nemobius, '91, 128, 134, 135.
Nemobius exiguum, '91, 136.
Nemobius fasciatus, '91, 136.
Nemobius vittatus, '91, 135.
 New crustacean fossils, '91, 27.
 Newlin, C. E., '94, 54; '95, 42; '96, 226.
 Newlin, John A., '00, 91.
 Newsom, J. F., '97, 250, 253; '98, 289.
 Newson, T. F., '95, 51.
 New switch, '91, 31.
 New triangle and some of its properties, '98, 89.
 Newt, notes on, '91, 144.
 Niagara group, fossils of, '91, 67.
 Niagara River, '91, 28.
 Nitrate of di-benzyl carbinamine, '91, 58.
 Nitrogen from wheat, '91, 23.
 Nitrogen forms for wheat, '91, 55.
 Nodules of leguminous plants, description of certain bacteria obtained from, '00, 157.
 Non-resident members, see members.
 Norman, W. W., '92, 73, 92.
 Northern mole cricket, '91, 180.
 Notation, changes in, '91, 65.
 Notes on an embedding material, '93, 233.
 Notes on Indiana birds, '93, 116.
 Notes on L- and B- lupanin, '96, 115.
 Notes on previously described cryptograms, '94, 154.
 Notes on the reptilian fauna of Vigo County, '94, 68.
 Notes on rock flexure, '91, 49.
 Notes on *Saprolegnia fera*, '93, 237.
 Notes on sectioning woody tissue, '93, 234.
 Notes on some phanerogams new or rare to the State, '96, 130.
 Notes on the amoeba, '91, 131.
 Notes on the flora of the lake region of Northeastern Indiana, '96, 147.
 Noteworthy Indiana phanerogams, '94, 120.
Notothylas, '91, 26.
Notothylas, life history of, '93, 239.
 Noyes, Mary Chilton, '95, 66.
 Noyes, W. A., '91, 56; '92, 169; '93, 266, 267; '94, 17, 51, 52; '95, 89; '96, 115; '97, 132; '98, 16); '99, 103.
 Nuclear division in vegetative cells, '98, 164.
 Numbers, '00, 103, 105.
 Numerical radices, '91, 30.
Nyssa, stone characters of, '91, 18.
 Nylander, R. E., '00, 97.
- OBSERVATIONS on some Oklahoma plants, '94, 100.
- Occurrence of the whistling swan in Wabash County, '94, 89.
 Oceanic fish, a new, '00, 166.
 Odonata of Turkey Lake, '95, 251.
Oecanthus, '91, 128, 138, 140.
Oecanthus angustipennis, '91, 143.
Oecanthus latipennis, '91, 141, 144.
Oecanthus niveus, '91, 141, 142, 143; '92, 91.
 Officers, '91, 1; '92, 4, 6; '93, 4, 6; '94, 6; '95, 12; '96, 7; '97, 7; '98, 8; '99, 8; '00, 9.
 Officers since organization, '91, 3; '92, 6; '93, 6; '94, 8; '95, 14; '96, 9; '97, 9; '98, 10; '99, 10; '00, 11.
 Ohio, *aegeria* of central, '91, 168.
 Ohio, recent archaeological discoveries in, '91, 98.
 Oil, '93, 170.
 Oil, photometry of, '97, 59.
 Old river channel, '97, 266.
 Old shoreline, '98, 288.
 Old Vernon, '98, 273.
 Olive, E. W., '93, 16, 234; '94, 100, 130; '97, 148; '98, 209.
Oneirohynclus nerka (red fish), '95, 131.
 On the fishes of Wabash County, '93, 229.
Orchelimum, '92, 113, 121, 123, 129.
Orchelimum brunneum, '92, 139.
Orchelimum concinnum, '92, 137.
Orchelimum delicatum, '92, 152.
Orchelimum glaberrimum, '92, 133.
Orchelimum gladiator, '92, 138.
Orchelimum gracile, '92, 120.
Orchelimum indianense, '92, 137.
Orchelimum nigripes, '92, 135, 140.
Orchelimum silvaticum, '92, 132, 136.
Orchelimum volantium, '92, 153..
Orchelimum vulgare, '92, 130, 133.
 Orchidaceae in Indiana, '95, 198.
 Ordinary yeasts possess no toxic properties, '96, 188.
 Ordovician rocks of southern Indiana, '00, 200.
 Ores, '93, 170.
 Organized work in plant chemistry, '91, 25.
 Organogamy of Compositae, '91, 79.
 Oriole, peculiar death of, '92, 62.
 Ornithology, '93, 108, 116.
 Ornithology, economical, '91, 21.
Orocharis, '91, 128, 130.
Orocharis saltator, '91, 138.
Orthis occidentalis and *sinuata*, '91, 18.
 Orthogonal surfaces, '96, 85.
Orthopelma bimaculatum, '92, 90.
 Orthoptera of Illinois, '91, 25.
Orthothetes minutus n. sp., developmental stages of, '00, 216.

- Osmundaceae, '91, 17.
 Our present knowledge of the distribution of Pteridophytes in Indiana, '93, 254.
 Outlook in warfare against infection, '91, 144.
 Owen, D. A., '91, 76, 152.
 Oxidation, '91, 14.
 Oxygen, atomic weight of, '91, 27.
- PACHYNEURON MICANS, '92, 90.
 Pacific deep water fishes, '91, 20.
Panichlora viridis, '92, 154.
Papilio ajax, '92, 85.
Papilio cresphontes, '92, 85.
 Paraffins, '97, 134.
Paragordius, '97, 232.
 Parasites, animal, collected in State during year, '94, 80.
 Parasitic fungi, distributed by State Biol. Surv., series i., '94, 154.
 Parasitic hymenoptera reared in Indiana, partial list of, '92, 80.
 Parasites in Indiana, '95, 168.
 Paraxylene-sulphamide, '91, 27.
 Paro-nitro-ortho-sulphamine-benzoic acid, '91, 27.
Paroxya atlantica, '92, 118.
Parus bicolor, '91, 167.
 Parvus group of Unionidae, '95, 108.
 Pasteur flask, device for supporting, '00, 157.
 Pear blight, '97, 150.
 Pear disease, an increasing Indiana, '94, 67.
Pediastrum, notes on, '92, 49.
 Peirce, G. J., '96, 172, 208.
 Peirce's linear associative algebra, '95, 39.
Peltandra undulata, '91, 137.
 Pentose-glucoses, '91, 29.
 Pentose carbohydrates, digestibility of, '91, 57.
 Periodicity in thermometers, '91, 26.
 Periodicity of root pressure, '96, 143; '91, 29.
Periplaneta, '92, 155, 156.
Periplaneta americana, '92, 157.
Periplaneta orientalis, '92, 156.
 Perkin synthesis, '91, 14.
 Permuanganic acid, '93, 262.
 Permeability, measurement of, '95, 83.
 Petroleum in southwest Indiana, '91, 30.
Phalangopsis lapidicola, '92, 147.
Phalangopsis maculata, '92, 142.
 Phanerogamic flora, '93, 17, 193.
 Phanerogamic flora of the State, revision of, '91, 66.
 Phanerogams of Indiana, '95, 169, 183.
 Phanerogams new or rare to the State, notes on, '96, 130.
- Phaneroptera augustifolia, '92, 102.
Phaneroptera curvicauda, '92, 99, 101, 102.
Phaneroptera septentrionalis, '92, 99.
 Phaneropterinae, '92, 96, 97.
 Phaneropterinae, key to genera of, '92, 98.
 Phasemeter, Rayleigh's alternate current, '00, 110.
 Phenyl compounds, '95, 88.
 Phenyl-hydrazin, action on furfural, '91, 57.
 Phosphate, a new, '94, 52.
 Phosphate of alumina, '91, 23, 57.
 Phosphoric acid, '91, 23, 57.
 Phosphorus in steel, volumetric determination of, '94, 51.
 Photography without camera, '91, 24, 27.
 Photometric methods, '91, 25.
 Photometry of oil, '97, 59.
 Photo-micrographic apparatus, '97, 78.
 Photomicrography, '91, 18; '95, 48.
 Photomicrography, as it may be practised today, '00, 34.
 Physical geography, aids in teaching, '00, 194.
Phycis indiginella, '92, 89.
 Phycomycetes, '93, 31.
Phyllodromia, '92, 155, 162.
Phyllodromia germanica, '92, 159, 162.
Phylloptera laurifolia, '92, 107.
Phylloptera oblongifolia, '92, 104, 105.
Phylloptera rotundifolia, '92, 107.
Phylloscirtus, '91, 128, 137.
Phylloscirtus pulchellus, '91, 137; '92, 118.
 Physical features of Turkey Lake, '95, 216.
 Physical geography, aids in teaching, '99, 54.
 Physiology, '91, 82, 91.
Phytonomus punctatus, '92, 84.
Phytophagus coleoptera, Tasmanian, '91, 168.
Picus, '91, 30.
Pimephales notatus, '98, 233.
 Pinus, archegonium and apical growth, '91, 79.
Pinus sylvestris, '91, 26.
Pisces, '93, 71.
 Pith cell changes, '96, 172.
Plantae, '91, 68.
Plantago, analytical key to species of, '96, 191.
Plantago minima, nov. sp., '96, 202.
Plantago rubra, nov. sp., '96, 204.
Plantago, value of seed characters in determining specific rank, '94, 67.
Plantago virginiana and *patagonica*, certain chemical features of seeds of, '94, 121.
 Plant curvatures, measurement of strains induced in, '94, 130.

- Plant products of the U. S. Pharmacopoeia (1890), '94, 108.
 Plant zones of Arizona, '91, 97.
 Plants collected near Crawfordsville during the year, '94, 65.
 Plants, midsummer of southeastern Tennessee, '00, 143.
 Plants, special senses of, '93, 205.
 Plants, variations of, '91, 14.
Platamodes pennsylvanica, '92, 158.
Platamodes unicolor, '92, 160.
 Platygaster error, '92, 91.
 Pleas, Elwood, '92, 55; '96, 271.
Pleodorina californica, '95, 99.
 Plum leaf fungus, '91, 14.
Plutella crueiferarum, '92, 90.
Pogonia, root system of, '94, 123.
 Poinsett Lake, '00, 179.
 Point invariants for the Lie groups of the plane, '98, 119.
 Point P and its properties, '99, 90.
 Poison, absorption of, by dead animal tissue, '93, 268.
 Poison effects of *Cypripedium spectabile*, '93, 254.
 Poisonous influences of some species of *Cypripedium*, '94, 136.
Polygonum, '91, 18.
Polygonum, cleistogamy in, '91, 92.
Polygonum amphibium, '92, 135, 140.
 Polyporoid fungi, '91, 30.
Polyporus lucidus, variations of, '94, 132.
 Pontederiaceae, histology of, '93, 234.
Porichthys, phosphorescent organ of, '91, 29.
 Porifera, '91, 63.
 Possible relation of Indiana Academy of Science, '96, 54.
 Potassium sulfhydrate, action of, upon certain aromatic chlorides, '94, 52.
 Potato, as means of transmitting energy, '91, 97.
 Potato tuber, '91, 14.
 Potential functions, history of, '91, 65.
 Potter, Theodore, '91, 144; '92, 63.
 Prairie rattlesnake, '91, 147.
 Preglacial erosion near Richmond, '92, 27.
 Prehistoric earthworks, '91, 65.
 Preliminary list of birds of Brown County, '94, 68.
 President's address, '91, 33; '92, 15; '93, 205; '94, 17; '95, 31; '96, 33; '97, 35; '98, 35; '99, 31; '00, 34.
 Price, J. A., '97, 262; '98, 289, '00, 179, 181.
 Price, F. M., '99, 155.
 Prime numbers in a biquadratic number field, on decomposition of, '00, 105.
 Proceedings of annual meeting, see meetings.
 Proceedings, law concerning publication of see act to provide for publication.
 Program of 1895, Christmas meeting, '95, 24.
 Program of 12th annual meeting, '96, 25.
 Program of 13th annual meeting, '97, 27.
 Program of 14th annual meeting, '98, 27.
 Program of 15th annual meeting, '99, 26.
 Program of 16th annual meeting, '00, 28.
 Propagation and protection of game and fish, see act to protect, etc.
 Proposed new systematic botany of N. A., '94, 133.
Protonotaria citrea, '91, 165.
 Protoplasm, circulation of, '95, 95.
 Protoplasm in mucor, '91, 14.
 Protoplasm, movement of, in hyphae of a mould, '00, 157.
Pseudophyllinae, '92, 96, 109.
 Psychic phenomena, '91, 31.
 Psychological laboratory of Indiana University, '94, 42.
 Ptaringan of the Aleutian Islands, '92, 78.
 Pteridophytes in Indiana, '93, 254.
Pterophylla coneave, '92, 109.
Pteropoda, '91, 68.
 Publication of proceedings, see act to provide for.
Puccineae, '91, 15.
 Purdue, A. H., '94, 43; '95, 51; '96, 68.
 Purdue engineering laboratory since the restoration, '94, 39.
 Purdue experimental locomotive, '92, 24.
 Purdue University, laboratory of, '91, 20.
 Putnam County fishes, '91, 23.
 Putnam County flora, '91, 30.
 Putnam County plants, '91, 25.
Pygostotus americanus, '92, 91.
 Pyrone and pyridone, from benzoyl acetone, '91, 48.
- QUARTZ SUSPENSIONS**, '92, 25.
 Quaternary, '93, 184.
 Quaternion and analytical treatments, '92, 20.
 Quaternion integrations, '91, 63.
Quercus coecinea, '91, 140.
 Quicksand poackets, '97, 234.
- RAFINESQUE SKETCH OF**, '91, 24.
 Railway break-shoes, friction of under various conditions of pressure, speed and temperature, '00, 100.
 Ramsey, Earl E., '00, 218.
 Randolph County, recently opened burial mound, '94, 46.
 Randolph mastodon, '96, 277.
 Range of the blue ash, '94, 107.

- Ransom, J. H., '00, 116.
 Ranunculaceæ, embryology of, '94, 121.
Raphidophora lapidicola, '92, 142, 147.
Raphidophora maculata, '92, 142.
Raphidophora subterranea, '92, 153.
Raphidophora stygius, '92, 148.
 Rattlesnakes, breeding habits, etc., of, '91, 107, 109.
 Raven in Indiana, '97, 201.
 Recent archaeological discoveries, '91, 98.
 Recent methods of determination of phosphoric acid, '91, 57.
 Reddick, G., '95, 261.
 Redding, T. B., '91, 76, 98; '92, 62, 71.
 Redfish in Idaho, '95, 131.
 Red-fish, the, of Idaho lakes, '94, 99.
 Red mould, '98, 202.
 Rediscovery of Hoy's white fish or moon eye, '94, 103.
 Refractive index, value of, '91, 31.
 Registration for anthropological purposes, '99, 53.
 Regular polygon, on method of inscribing, '98, 92.
 Relation of high schools to the biological survey, '93, 199.
 Religion and continuity, '01, 23.
 Report annual meetings, see meetings annual.
 Report, (first) of biological station, '95, 202.
 Report of progress of botanical division of State biological survey, '94, 144.
 Reptiles and batrachians of Wabash County, '94, 80.
 Reptilian fauna of Vigo County, notes on, '94, 68.
 Rettger, L. J., '96, 54, 224; '00, 167.
 Reversal of current, in the Toepler-Holtz electrical machine, '94, 47.
 Revision of the phanerogamic flora of the State, '94, 66.
 Revision of the species of the genus *Plantago* occurring within the U. S., '96, 190.
Rhyssalus loxoteniae, '92, 89.
 Rhinoptera, new species of, '91, 20.
Rhynchosphora Tasmanian, '91, 168.
Rhyssematus lineaticollis, '92, 89.
 Richardia, growth in petiole of, '93, 235.
 Ridgley, D. C., '93, 70; '95, 216.
 Ripley, G. E., '98, 169.
 River bends and bluffs, '00, 197.
 Rivers, method of determining sewage pollution of, '94, 40.
 Roberts, Geo. L., '93, 237.
 Rock flexure, notes on, '94, 49.
 Rodents, growth of incisor, '96, 226.
 Root pressure, apparatus for periodicity, '91, 28.
 Root pressure, periodicity of, '96, 143.
 Root system of *Pogonia*, '94, 123.
 Rotary blowers, '92, 26.
 Rothrock, D. A., '98, 119, 135.
 Rotifera of Turkey Lake, '95, 242.
 Round and Shriner Lakes, biological conditions of, '99, 151.
 Royse, Daniel, '93, 274.
 Royse, J. S., '94, 51.
 Russian thistle, '96, 224.
- SACCHAROMYCES ANOMALUS HANSEN**, '90, 141.
 Sailor spiders, '91, 23.
Saitis pulex, '92, 90.
 Salamander, a new species of cave from Ozark mountains, '00, 167.
 Salamander, Kankakee, '00, 165.
 Salamanders, lungless, '97, 205, 206.
Salix cordata, '92, 124.
 Salt, '93, 170.
 Salt Creek, headwaters of, '99, 164.
 Saltatoria, '92, 92.
 Salt-rising bread, '94, 126.
 Sandwich Islands, fishes of, '91, 23.
 Sanitary science, '95, 49.
 Sap circulation, '91, 26.
Saprolegnia ferax, '93, 237.
 Sawtooth Mountains, birds observed in, '94, 80.
 Saxifragaceæ of Indiana, '94, 103.
 Scales of Lepidoptera, '91, 168.
Seaphiopus holbrookii, '91, 20.
 Scheuch, F. C., '94, 52.
 Science and the state, '96, 33.
 Scovell, J. T., '92, 29, 50, 55; '94, 80, 99; '95, 54, 55, 126, 131; '97, 56; '98, 70, 274; '00, 124.
 Scudderia, '92, 98.
Scudderia augustifolia, '92, 102.
Scudderia curvicauda, '92, 99, 100, 102.
Scudderia furcata, '92, 101, 152.
Scudderia furculata, '92, 99, 100.
Scudderia pistillata, '92, 152.
 Seaton, H. E., '91, 80.
 Sectioning woody tissues, '93, 234.
Sedum ternatum, disappearance of, '99, 145.
 Seed characters, value of, in determining specific rank in genus *Plantago*, '94, 67.
 Seeds, formalin on, '97, 144.
 Seeds of *Plantago virginiana* and *pataconica*, certain chemical features of, '94, 121.
 Seismology, '91, 26.
 Seismoscope, '91, 20.
 Selby, Aug. D., '91, 74.

- Sewage pollution of rivers, method of determining, '94, 40.
- Sexual organs, development of in Cymatogaster, '94, 138.
- Shaaf, Albert, '00, 179, 181.
- Shaft friction, '96, 79.
- Shannon, W. P., '92, 49; '94, 53, 107, 130; '96, 65, 271.
- Sharp, L. W., '94, 33.
- Shaw, James Byrne, '95, 59.
- Shelby County earthquake, '91, 27.
- Shell, a gorget, '00, 81.
- Shell mound, a Florida, '94, 48.
- Shepherd, J. W., '98, 160; '99, 96.
- Shrews, Indiana, '91, 161.
- Silurian, '93, 185.
- Silurian sections in Eastern Indiana, correlation of, '94, 54.
- Silvanus surin amensis, '92, 91.
- Simulium meredionale, '91, 158; '92, 87.
- Simulium pecuarium, '91, 158; '92, 87.
- Siphonophora avenal, '92, 90.
- Siphonophora, encurbitaphidis, '92, 90.
- Siphonophores, '91, 28.
- Sistrurus, breeding habits, etc., of, '91, 109.
- Skew surfaces, third and fourth degree, '95, 57.
- Slick, E. E., '92, 94, 117.
- Slonaker, J. R., '96, 304; '98, 253; '99, 146; '00, 167.
- Slopes, weathering of north and south, '99, 167.
- Smart, R. A., '00, 100.
- Smith, Alex., '91, 46, 48; '93, 266.
- Smith, C. E., '98, 101.
- Smut, experiments with, '00, 123.
- Snake cactus, '91, 18.
- Snakes, breeding habits of, '91, 106, 120.
- Snakes of Turkey Lake, '95, 261.
- Snow, Benj. W., '92, 20, 25, 26.
- Snow pumping engine, performance of, '98, 147.
- Snyder, Lillian, '97, 150; '98, 186; '96, 216.
- Soap analysis, '91, 28.
- Soils, humus in, '92, 166.
- Soil solvents, '96, 104.
- Solidago, '91, 25.
- Solidago rigida, '92, 139.
- Some evolution among cacti, '93, 262.
- Some new Indiana fossils, '94, 54.
- Some new laboratory appliances in chemistry, '94, 51.
- Some queries relative to Solanum dulcamara, '93, 232.
- Some suggestions to teachers of science or mathematics in high schools, '91, 51.
- Somers, A. N., '92, 29, 35, 51.
- Sorghum sugar, '91, 31.
- Sound, propagation of, etc., '98, 82.
- Sounds, decrease of intensity, '97, 84.
- Sounds, intensity of telephonie, '98, 84.
- South American cat fishes, '92, 72.
- South American Characinae, '93, 226.
- Special senses of plants, the, '98, 205.
- Species, description of, '91, 14.
- Spectrum of cyanogen, '97, 97.
- Spectrum of electric arc, '97, 95.
- Sphagnaceae, '93, 67.
- Sphyrapheicus varius, '91, 167.
- Spinal cord, functions of, from clinical study, '94, 35.
- Spirogyra, '91, 18.
- Sporangium of Botrychium, '91, 79.
- Spreading adder, breeding habits, etc., of, '91, 114.
- Spring meetings—see field meetings.
- Spy Run creek, abandoned meanders of, '00, 181.
- Spy Run and Poinsett Lake bottoms, '00, 173.
- Squeteague, life history of, '00, 166.
- Stagmomantis carolina, '92, 86.
- Staining in toto of heads of Vernonia, method of, '94, 120.
- Starches, susceptibility of, '97, 74.
- Starch in cereals, '91, 30.
- State biological survey, report of progress of botanical division, '94, 66.
- State flora, list of additions to, '94, 147.
- State library, botanical literature in, '95, 102.
- Station, biological, a new, and its aim, '94, 34.
- Stauffer, E. P., '95, 64.
- Steamer "Albatross," '91, 20.
- Steam pipe, value of, in smoke-box of the locomotive, '93, 271.
- Stellerida, '91, 68.
- Stenopelmatinae, '92, 96, 140.
- Stereoisomerism, of the hydrazoins of benzoin, '93, 206.
- Stevens, M. C., '98, 147.
- St. Joseph and Kankakee at South Bend, '98, 270.
- St. Lawrence, the, angling in, '94, 81.
- Stomata developed by phylloxera, '91, 76.
- Stomates of Cycas, '93, 254; '94, 130.
- Stone, building, '93, 170.
- Stone, W. E., '91, 57; '92, 165, 168, 169; '94, 51; '97, 74.
- Stoops, H. M., '92, 51, 55; '94, 58.
- Storeria dekayi, breeding habits, etc., of, '91, 114.
- Strains induced in plant curvature, measurement of, '94, 130.
- Strains in steam machinery, '95, 75.

- Street pavements, hygienic value of, '90, 61.
 Strength of timber, variation of, in different parts of the cross-section, '93, 268.
 Streptomatidae of the falls of the Ohio, '94, 58, 140.
 Striped ground cricket, '91, 134.
 Striped tree cricket, '91, 143.
 Structural geologic work of J. H. Means in Arkansas, '94, 54.
 Strychnine, detection of in exhumed body, '93, 267.
Stylophryga orientalis, '92, 156.
 Stuart, Wm., '95, 96; '98, 64; '00, 148, 153.
 Subdivision of power, '96, 93.
 Sucrose in sorghum, '91, 31.
 Sugar beet in Indiana, '91, 55.
 Sugar of the century plant, '94, 51.
 Suggestions for the biological survey, '93, 191.
 Suicide of a crow, '96, 275.
 Sulphon-phthaleins, '92, 166.
 Sun fishes, '91, 15.
 Sun's light, '91, 29.
 Surface tension, accurate measurement of, '94, 50.
 Surface tension of liquids, '95, 67.
 Surface, warped or universal elliptic eccentricity, '94, 50.
 Swamps of Franklin County, '94, 58.
 Sweet potatoes, '91, 29.
 Symmedian point, some properties of the, '00, 85.
Synaptomys cooperii, '91, 16.
 Synonomy of Ohio River Unionidae, '94, 57.
 Systematic botany, proposed new, of N. A., '94, 133.
- TABLE OF CONTENTS, see contents, table of.**
- Talbert, G. A., '94, 35.
 Tasmanian insects, '91, 31, 168.
 Tautomeric compounds, '91, 27.
Taxodium distichum, '91, 18.
 Taylor, S. N., '96, 98.
Tennopteryx, '91, 155, 160.
Tennopteryx deropeltiformis, '92, 160.
 Temperature of Lake Wawasee, '96, 279.
 Temperature regulator, the automatic, '00, 90.
 Tennessee, midsummer plants of southeastern, '00, 143.
 Tenth annual meeting Indiana Academy of Science, '94, 16.
 Tertiary rocks, induration of, in Northeastern Arkansas, '93, 219.
 Test, F. C., '92, 56.
 Test, W. H., '92, 168.
 Tests of car axle, '96, 88.
 Tests of torsional strength, '92, 20.
 Testudinata of Turkey Lake, '95, 262.
Tetracha virginica, '92, 86.
 Δ^3 Tetra-hydro-analine, '93, 266.
 Texas, flora of, '91, 18.
 The effect of drought upon certain plants, great structural differences, '96, 210.
 The effects of drought upon certain plants; plants which can withstand drought, '96, 211.
 Theory of envelopes, '98, 83.
 Theory of numbers, a theorem in the, '00, 103.
Thiofurfurol, '92, 169.
 Thomas, M. B., '91, 81, 168; '92, 48, 49; '93, 16, 239, 254; '94, 65, 123; '95, 143; '97, 144; '98, 62, 163; '99, 145; '00, 121, 123.
 Three collinear points, '97, 104.
Thyreonotus, '92, 149.
Thyreonotus dorsalis, '92, 151.
Thyreonotus pachymerus, '92, 150.
Thysanura, '91, 22.
Tillandsia usneoides, '91, 28.
Tillandsia usneoides, '91, 17.
 Time determination, '97, 242.
 Tingley, E. M., '91, 65.
 Tippecanoe Lake, '96, 296.
 Titanium, '91, 27.
 Toad, daily habits of, '00, 167.
 Toepler-Holtz electrical machine, reversal of current in, '94, 47.
 Toepler-Holtz machine, '91, 25.
 Toepler-Holtz machine for Roentgen rays, '99, 85.
 Tomatoes, bacterial disease of, '00, 153.
 Tornado, '96, 65.
Toxoptera graminum, '92, 91.
 Trees, ash of, '93, 239.
 Triangle, concurrent sets of lines in, '98, 93.
Tridactylus, '91, 128-129.
Tridactylus minutus, '91, 144.
Tridactylus specialis, '91, 129.
Tridactylus terminalis, '91, 144.
 Triphenyl benzine, formation of, '91, 47.
Tropidonotus, breeding habits, etc., of, '91, 112.
Tropidonotus grahamii, '91, 113.
Tropidonotus kirtlandii, '91, 114.
Tropidonotus leberis, '91, 113.
Tropidonotus sipedon, '91, 112.
 Troyer, D. J., '98, 258.
 Trusts, effects of, '91, 23.
Trypeta gibba, '92, 89.
Tsuga, archegonium and apical growth, '91, 79.
Tsuga canadensis, '91, 26.

- Turkey Lake as a unit of environment, '95, 209.
 Turkey Lake, illustrations of, '95, 216, 217.
 Turkey Lake, inhabitants of, '95, 239.
 Turkey Lake, plankton of, '96, 287.
 Turkey Lake, variation in, '95, 265.
 Turkey Lake, work at, '97, 207.
 Turtles, habits of, '93, 224.
 Turtles, observations on, '91, 120.
 Two-ocean pass, '92, 29.
Tyloderma foreolatum, '92, 91.
Typhlomolge, eye of, '98, 251.
Typhlotriton spelaeus, eyes of, '98, 252.
- UDEOPSYLLA NIGRA**, '92, 153.
Uline, E. B., '92, 42.
Ulmus americana, '91, 140.
 Ulrey, A. B., '92, 63; '93, 224, 226, 229; '94, 66, 80, 135; '95, 147, 148; '96, 224; '97, 232.
 Umbelliferae, '91, 28.
 Umbellifers, '91, 13.
 Unconscious mental cerebration, '95, 42.
 Underwood, L. M., '91, 83, 89, 92; '92, 41, 48, 49; '93, 13, 20, 30, 254; '94, 66, 67, 132, 133, 144; '96, 171.
 Unionidae of Ohio River, '94, 139.
 Unionidae, Parvus group of, '95, 108.
 United States coast and geological survey, '91, 26.
 United States Fish Commission, '91, 24.
 United States Fish Commission steamer Albatross, '92, 56.
 Univalves, fresh water, '93, 150.
Uranoscopidae, '91, 25.
 Uredineae of Madison and Noble Counties, '98, 186.
 Urinator imbrex, '91, 166.
 Urine, blood in, '91, 25.
 Uroglena in Lafayette, '96, 56.
- VALENCE**, determination of, '92, 169.
 Value of seed characters in determining specific rank in the genus *Plantago*, '94, 67.
 Value of steam pipe in the smokebox of the locomotive, '93, 271.
 Vanderburgh County mounds, '96, 68.
 Van der Waal's equation, '92, 25.
 Van Nuyts, T. C., '91, 51, 48; '93, 262, 265.
 Vapor densities, determination of, '00, 95.
 Variations in the color pattern of *Etheostoma caprodes*, '93, 231.
 Variation in *Etheostoma*, '94, 135.
 Variation of *Ethiostoma caprodes*, '95, 278.
 Variation in *Leuciscus*, '94, 87.
 Variations of *Polyporus Lucidus*, '94, 132.
 Variation of species, two cases of, '98, 288.
- Variation of a standard thermometer, '95, 63.
 Variations in strength of timber for different parts of the cross section, '93, 268.
 Variation, the study of, '95, 265.
 Veatch, Arthur C., '97, 266.
 Vegetable and mineral matter from a snow storm, '92, 29.
 Vegetable diet, indigestible structures, etc., '98, 62.
 Vegetable physiology, new apparatus for, '94, 62.
 Vegetable powders, examination of, '00, 120.
 Vegetable powders, staining of, '00, 120.
 Vegetation house as an aid in research, '94, 138.
 Venous sinuses, supply of blood to, '98, 229.
Veratrum woodii, '91, 29.
 Vermillion, Newt., notes on, '91, 144.
Vernonia fasciculata, '92, 132.
 Vernonia, heads of, methods of infiltrating and staining, in toto, '94, 120.
Vernonia pasciulata, '91, 144.
 Vertebrae in fishes, '91, 24.
 Vertebrates, cold blooded of Winona Lake, '00, 218.
 Vesuvian cycle, '98, 72.
 Vigo County Compositae, '91, 15.
 Vigo County drift, '91, 28.
 Vigo County fish, '91, 19.
 Vigo County geology, '91, 28.
 Vigo County, notes on the reptilian fauna of, '94, 68.
Viola pedata, '91, 30.
 Viscosity, empirical formula for, '95, 84.
 Viscosity of a polarized dielectric, '95, 77.
 Viviparidae, geographic and hypsometric distribution of, in the U. S., '93, 225.
 Volatile matter in bituminous coal, '96, 113.
 Volumetric determination of phosphorus in steel, '94, 51.
 Voris, J. H., '98, 233.
- WABASH COUNTY**, additions to fish fauna of, '94, 68.
 Wabash County, batrachians and reptiles of, '94, 80.
 Wabash County, birds of, '94, 80; '95, 148.
 Wabash County, fishes of, '93, 229.
 Wabash County, occurrence of whistling swan in, '94, 80.
 Wabash County, Russian thistle, '96, 224.
 Wabash County, the flowering plants of, '94, 66.
 Wabash drainage system, development of, '00, 184.
 Wabash Erie divide, '91, 18.

- Wabash fishes, '91, 20, 23.
 Wabash, physical geography of the Great Bend of the, '99, 157.
 Wabash River, '91, 17.
 Wabash, terraces of the lower, '98, 274.
 Waldo, C. A., '91, 65; '94, 50; '95, 57; '96, 86; '98, 35, 72; '00, 91.
 Wadron fauna at Tarr Hole, '99, 174.
 Walker, Ernest, '94, 27.
 Walker, Francis A., '92, 51.
 Wallace, W. O., '93, 70; '94, 68, 80; '95, 148.
 Ward, L. W., '93, 223.
 Warped surface of universal elliptic eccentricity, '94, 50.
 Wasted energy, '98, 72.
 Water birds of Turkey Lake, '95, 264.
 Water culture of indigenous plants, '94, 60.
 Water, evaporation of oil-covered, '98, 85.
 Water in oils and fats, '91, 25, 30.
 Water, micro-organisms in, '97, 143.
 Water moeasins, breeding habits, etc., of, '91, 107.
 Water power for botanical apparatus, '97, 156.
 Water snakes, breeding habits, etc., of, '91, 112.
 Water supply for Chicago, location of pipe line, '91, 72.
 Water supply for cities in Northwestern Indiana, '91, 71, 72.
 Water supply for New York, '91, 27.
 Wave marks on Cincinnati limestone, '94, 53.
 Webster, F. M., '91, 155, 158; '92, 81; '93, 69; '98, 224, 225, 227.
 Webster Lake, '96, 296.
 Wehnelt interrupter, an improved, '00, 97.
 Wells County, mycological notes, '00, 161.
 Well waters, '91, 27, 56.
 Wesmaelia rileyi, '92, 91.
 Western plants, '91, 28.
 Western plants at Columbus, Ohio, '91, 74.
 Westlund, Jacob, '01, 103, 205.
 Wheatstone's bridge, '91, 27.
 Whistling swan, occurrence of, in Wabash County, '94, 80.
 White clays of Indiana, '93, 224.
 White climbing cricket, '91, 141, 142.
 White spored agarics, '91, 26.
 Whitley County, mycological notes, '00, 161.
 Whitten, W. M., '97, 234.
 Wilkin, John, '92, 26.
 Williamson, E. B., '99, 151; '00, 161, 173.
 Wilson, Guy, '94, 156.
 Wingless striped cricket, '91, 135.
 Winona Lake, cold blooded vertebrates of, '00, 218.
 Wires, elastic fatigue of, '94, 50.
 Woldt, Mae, '97, 206.
 Wood shrinkage, '95, 100.
 Woods, microscopic structure of, '00, 157.
 Woollen, W. W., '98, 53.
 Work and purposes of Indiana Academy of Science, '95, 7.
 Work of the botanical division of the Natural History Survey of Minnesota, '93, 233.
 Working shelves for botanical laboratory, '94, 61.
 Worstell, R. A., '97, 134.
 Wright, John S., '92, 41, 50; '93, 233, 234; '94, 108; '95, 102, 105; '97, 171, 172, 177; '98, 62; '00, 120.
 Wrought iron, strength of, '97, 131.
- XANTHIUM, '95, 100.
Xanthocephalus xanthocephalus, '91, 165.
Xanthoxylum americanum, '91, 139.
Xiphidium, '92, 113, 119, 121, 123, 130.
Xiphidium agile, '92, 131, 132.
Xiphidium attenuatum, '92, 128, 140.
Xiphidium brevipenne, '92, 121, 123.
Xiphidium concinnum, '92, 137.
Xiphidium eurtipenne, '92, 122.
Xiphidium ensiforme, '92, 123.
Xiphidium fasciatum, '92, 119, 121, 123.
Xiphidium glaberrimum, '92, 133.
Xiphidium modestum, '92, 126.
Xiphidium nemorale, '92, 122.
Xiphidium nigroplenum, '92, 118, 125.
Xiphidium saltans, '92, 152.
Xiphidium seudleri, '92, 128.
Xiphidium spinulosum, '92, 136.
Xiphidium strictum, '92, 127, 129, 134.
Xiphidium, variations in species of, '92, 119, 121, 129.
Xiphidium vulgare, '92, 131.
 X-ray transparency, '98, 74.
 Xylan, extraction of, from straw, '92, 168.
 Xylose, '91, 29.
 Xylose multirotation of, '92, 169.
- YEAST, a proteolytic enzyme of, '99, 129.
 Yeast in bread, '97, 62.
 Yeasts, pathogenic organisms, '96, 185.
 Yellowstone Park, '91, 24.
 Yoder, A. C., '98, 242.
 Young's modulus, '95, 66.
- ZELA NIGRICEPS, '92, 90.
 Zinc ethyl, action of, on ferric bromide and ferric chloride, '94, 51.
 Zoölogy, '93, 67, 224.
 Zoölogy, systematic, '91, 24.

