

## INDEX TO VOLUME 87

- Abner Hollow, OH 28  
 Acanthocephala: Neoechinorhynchidae 61  
*Acer* 3 sp. 38, *rubrum* 51, *saccharum* 55  
*Acronuria* 2 sp. 42  
*Acuponana* 33  
 Adams County, OH 2, 8, 27, 78  
*Aesculus* 2 sp. 39  
*Agelaius phoeniceus* 125  
 agricultural revolution 186  
*Agrobacterium tumefaciens* 184  
 AIDS (Acquired Immune Deficiency Syndrome) 148  
 Akron, OH 6, 10  
 Alger County, MI 29  
 Allegheny Plateau 13, 68  
*Allocaenia* sp. 42  
*Amblyscirtes belli* Freeman 103  
*Ambystoma* 2 sp. 3, 8 sp. 23  
 Ambystomatidae 23  
 American Astronomical Society (AAS) 24  
 American Institute of Aeronautics and Astronautics (AIAA) 24  
*American Midland Naturalist* 5  
 American Society for Microbiology (ASM) 151  
 Amgen Co. 168  
 Amish 7  
*Anabaena* 16  
*Anaptychia palmatula* (Michx.) Vain. 27  
 Andes Mountains 33  
*Andropogon* 2 sp. 134  
*Aneides aeneus* 8  
*Anodonta grandis* spp. 29, 2 sp. 30, 2 sp. 93  
 Anodontinae 93  
*Anodontoides ferrusacianus* Lea 1834 30  
 Anterior-Posterior Orientation of Glochidia 93  
 Antioch College 4  
*Aotus trivigatus* 137  
 Apatelodidae 2 sp. 58  
 Appalachian Mountains 36, 105, Plateau 67  
*Aquilegia* sp. 103  
*Arabis laevigata* (Muhl.) 101  
 Arctiidae 21 sp. 58  
 Arkansas Act 590 of 1981 115  
 Arkansas River 44  
 Arnold, P. T. 112  
 Associated Press 115  
*Aster simplex* Willd. 103  
*Atactorhynchus verecundus* 65  
 Athens, OH 142  
 Athens County, OH 27, 69, 101  
*Atoperla* sp. 43  
 Attitudes Toward Biotechnology 169-174  
 Auglaize River, OH 5  
 autosomal assignments 158
- Bacillus popilliae* 176  
*Baeomyces* 2 sp. 27  
 Bailey, J. 5  
 Bailey, R. 5  
*Barbarea vulgaris* 112  
 Bartley, F. 8  
 Barton, G. F. 169  
*Bartramia longicauda* 6  
 Battelle Memorial Institute 149  
 Beckett, D. C. 41  
 Bedford Shale 10  
 benzodiazepine tranquilizers: alprazolam, triazolam, diazepam, chlordiazepoxide 107  
 Berea Sandstone 10  
 Bernhardt, G. E. 125
- Betula* 2 sp. 36, 38  
 Big Darby Creek, OH 8  
 Biogen 168  
 Biological Sciences Curriculum Study 123  
 Biologics Corp. 179  
 biomass conversion processes 185  
 Biotechnica International 167  
 Biotechnology and Medical Education 158-161  
 Biotechnology and Plant Productivity 143-147  
 Biotechnology Applications 182-185  
 Biotechnology Science Coordinating Committee (BSCC) 175  
 Biotechnology: Social and Legal Issues 148-153  
 Birds Feeding on Corn Ears 125-129  
 Bisher Formation 78  
 Blackbird and Starling Feeding Behavior 125  
 Blanchard River, OH 23  
*Blarina brevicauda* 131  
*Boloria selene* (Denis and Schiffermüller) 100  
 book reviews:  
   The Cell Builders 47  
   The Illustrated Flora of Illinois 96  
   Guide to the Vascular Flora of Illinois 140  
   Biotechnology of Plants and Microorganisms 188  
*Bosmina longirostris* 62  
 Bouyoucos hydrometer method 37  
 bovine somatotropin (BST) 182  
 Bowling Green State Univ., OH 115,  
   Natl. *Drosophila* Species Resource Center 90  
 Brack, Jr., V. 130  
 Braun, L. 8  
 Brazil 98  
*Brevisana*, *B. rugosa*, n. sp. 33  
 Brigham Young Univ. 115  
 British Columbia 90  
 British Isles 80, Welsh Basin of 84  
 Brookings Institute Conference 181  
 Brown County, OH 2  
 Buchanan, F. 7  
 Buckeye Trail, The 2-9  
 Burch, O. 7  
 Bureau of Labor Statistics 149  
 Burnt Chimney, VA 51  
 Burr Oak Lake, OH 7, State Park 7  
*Business Week* 169  
 Buzzards Roost Rock 8, 28
- Cabinet Council on Natural Resources and the Environment 175  
 Caesar's Creek, OH 3  
 Calanoida 62  
*Calephelis muticum* McAlpine 99  
 Calhoun, J. V. 98  
 California 123  
 California Yacht Club (CYC) 42  
*Calluna vulgaris* 113  
*Cambarus* 2 sp. 46  
 Canada 44, 71  
 Canal Fulton, OH 6  
*Candelaria concolor* (Dicks.) stein. 27  
 Cantwell Cliffs State Park, OH 50  
 Cape Ann, MA 6  
 Capniidae 8 sp. 71  
*Carex stricta* Lam. 102, spp. 134  
*Carniodus carnulus* 81  
*Carnosea* DeLong, new status 33  
*Carpinus caroliniana* 38  
*Carpiodes carpio* 62
- Carya cordiformis* 38, 55  
 Case-Western Reserve Univ. 142, 150  
 Catholic Univ. 150  
 Cedar Bog, OH 99  
 Celeste, R. 186  
 cell fusion 175  
*Celtis occidentalis* 39  
 Center for UFO Studies (CUFOS) 24  
 Central Connecticut State Univ. 122  
 Centric spp 74  
*Ceratopsycha ventura* 67  
*Cercis canadensis* 53  
*Ceriodaphnia quadrangula* 62  
*Cetraria* 3 sp. 27  
 Cetus Co. 168  
*Chaetura pelagica* 6  
 Chamber of Commerce of South Carolina 170  
 Champaign County, OH 99  
*Check List of the Lepidoptera of America North of Mexico* 56  
 chemical farming 156  
 Chesapeake Bay 21  
 Cheshire, OH 28  
 Chicago, IL 112  
 chicken pituitary hormone genes 162  
*Chilella* 33  
*Chionanthus virginicus* 36  
 Chittick apparatus 10  
 Chloroperlidae 67, 7 sp. 71  
 chromosomal karyotyping 159  
*Chrysemys picta* 5  
*Chydorus sphaericus* 62  
 Cicadas in Orchards 50-54  
 Cicadidae: *Magiccada* 3 sp. 50  
 Cicadellidae 33, 134, 136, *Chlorotettix limosus* DeLong and Cartwright 134, *meriscus* New Species 135, *Macropsinae* 3 sp., *Agalliinae* 3 sp., *Idiocerinae* 2 sp., *Iassinae* 1 sp., *Gyponinae* 4 sp., *Cicadellinae* 12 sp., *Evacanthinae* 1 sp., *Typhlocybiniae* 5 sp., *Coelidiinae* 1 sp., *Neocoelidiinae* 1 sp., *Aphrodinae* 2 sp., *Xestocephalinae* 1 sp., *Penthimiinae* 1 sp., *Deltocephalinae* 31 sp. 136  
 Cincinnati 2, 41, 56, 99  
 Art Museum 2  
 Eden Park 2  
 Kron Conservatory 2  
 Museum of Natural History 2, 103  
 Circleville, OH 8  
*Cirsium muticum* Michx. 100, *arvense* 112  
*Cladina* 2 sp. 27  
*Cladonia* 13 sp. 27  
 Clarita Formation, OK 85  
 Clark County, OH 134  
 Clermont County, OH 103, 130  
 Cleveland, OH 6, 10, 142  
 Cleveland Shale 10  
 Clinton County, OH 28  
 cloning 162  
*Clonophis kirtlandi* 2  
 Cohen-Boyer patent 152  
 Cold Spring Harbor Laboratories 150, 158  
 Coleophoridae 56  
 Coleoptera 131, Scarabaeidae, Carabidae, Curculionidae 131  
*Collema subflaccidum* Degel. 27  
 Colombia, S. A. 34  
 Columbiana County, OH 134  
 Columbus, OH 100  
 complementary DNA (cDNA) 162  
 Conant, R. 5  
 Conodonts of the Estill Shale and Bisher Formation 78

- Cornus florida* 38, 70, *cornus* 102, 134  
*Corylus cornuta* Marsh. 103  
 Cossidae 56  
 Crane Creek, OH 6  
 Crane Hollow, Inc. 27  
 Crane Hollow Lichens 27-29  
 creation science 115  
 Cruciferae 102  
*Cryptothyrella lithofacies* 79  
 Cullis, C. A. 143  
 Cumberland Mountains 36  
 Current and Diatom Communities 72-78  
 Cuyahoga County, OH 10, 101  
 Cuyahoga River, OH 10, 29  
 Cuyahoga Valley National Recreation Area (CVNRA) 10  
 Cwikla, P. S. 134  
 Cyclopoida 62  
*Cyclops* 2 sp. 62  
*Cyprinodon variegatus* 65  
*Cyprinus carpio* 15  
  
 Damon Biotech 168  
 Danaidae 57  
 Daniel, P. M. 2  
*Daphnia* 3 sp. 62  
 Davis Memorial 8  
 Davis, R. 175  
 Dayton, OH 4, 56, 100  
 DECORANA 36  
*Decoriconus fragilis* 81  
 Deeds, Col. E. A. 4  
 Deep Cut, OH 5  
 Delaware County, OH 24  
*Delotaxis* sp. 85  
 Delphos, OH 5  
*Dermatocarpon* 2 sp. 27  
 Devonian 2  
 Dexter, R. 6  
 Diamond vs. Chakrabarty 152  
*Diaphanosoma birgei* 62  
*Diaptomus pallidus* 61  
 Diatom (Bacillariophyceae) Communities 72  
*Didelphis virginiana* 131  
 Dimilin (diflubenzuron) 101  
*Diospyros virginiana* 51  
 Diptera 131  
*Distomodus staurognaethoides* 81  
 Distribution of Salamanders of the Genus *Ambystoma* 23  
 Dolbeer, R. A. 125  
 Domin scale 37  
*Dorosoma cepedianum* 4, 2 sp. 61  
*Dragonana* Ball 34  
 Draize test 151  
 Drepanidae 2 sp. 57  
*Drosophila virilis* Species Group 90, 8 sp. 91  
 Drosophilidae 90  
 Duchene muscular dystrophy 159  
 Dun and Bradstreet's Marketing Services Division 170  
 Durbin, E. J. 90  
 Durham County, NC 51  
  
 Economics of Agricultural Biotechnology 153-157  
 Edge of Appalachia preserves, OH 8  
 Effects of Alprazolam and Triazolam 107-111  
*Elaphe vulpina* 5  
 Elemental Composition of Tills 10-15  
 Eli Lilly Co. 153  
*Elliptio dilatata* 29  
 Ellisco General Purpose "Black Light" Trap 55  
 Embryogen Co. 149  
 Empididae 67  
  
*Emydoidea blandingi* 5  
 Endangered Butterflies 98-106  
 Environmental Protection Agency (EPA) 150, 175  
 Experimental Use Permit (EUP) 176  
 Scientific Advisory Committee for Biotechnology 178  
 Enzyme Technology 149  
 Ephemeroptera 132  
*Eptesicus fuscus* 131  
 Erie Basin 10  
 Erie County, OH 102, 125  
*Erora laeta* (W. H. Edwards) 103  
*Erynnis persius* (Scudder) 98, 2 sp. 99, 1 sp. 103  
*Escherichia coli* 163, 184  
*Esox masquinongy* 20  
 Essex County, NJ 122  
 Estill-Bisher Conodonts 78-89  
 Estill County, KY 78  
*Etheostoma* 2 sp. 8  
*Euchloe olympia* (Edwards) 101  
*Euclyps agilis* 62  
*Euonymus americanus* 36  
 Europe 85, 185  
 Evaluation of Biotechnology Firms 166-169  
 Evolution-Creation Controversy 115  
  
*Fagus grandifolia* 38, 55, 103  
 Fairborn, OH 4  
 Fairfield County, OH 27  
*Falcapica midea* (Hubner) 101  
*Fallicambarus (Creaserinus) fodiens* (Cottle 1863) (Decapoda: Cambaridae) 46  
 Federal Food, Drug, and Cosmetic Act (FDCA) 174  
 Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) 174  
 Federal Plant Pest Act (FPPA) 174  
 Federal Register 175  
 Filamentous algal spp. 74  
 Findley State Park, OH 5  
 Finni, G. R. 130  
 Firelands of the Western Reserve 5  
 Fishbeck, D. W. 67  
 Fish Lake, MI 29  
 Fleishmann-Hillard, Inc., Opinion Research Division 170  
 Fleming County, KY 78  
 Florio, J. J. 181  
 Flushing Escarpment 7  
 Food and Drug Administration (FDA) 150, 153, 175  
 Food Habits of Four Species of Bats 130  
*Formica integra* Nylander 101  
 Forsyth, J. 5  
 Fort Ancient, OH 3  
 Fort Hill Memorial 8, 103  
 Fort Laramie, OH 5  
 Foster, D. N. 162  
 Foundation on Economic Trends 174, 179  
 Foundation on Economic Trends v. Heckler 1984 180  
*Fragaria virginiana* Duchesne 101  
*Fragilaria vaucheriae* 74  
 Franklin County, OH 100  
*Fraxinus americana* 38  
 Fremont, OH 5  
 French Guiana 33  
 Freytag, P. H. 33  
  
 Gallipolis, OH 46  
 Gama Co. 168  
*Gaylussacia baccata* 38  
 Geauga County, OH 67  
 Gene Isolation From a cDNA Library 162-165  
 gene-splicing 143, 183  
 General Accounting Office (GAO) 175  
  
 Genentech Corp. 149, 153  
 genetic engineering 182  
 Genetic Engineering Co. 168  
*Genetic Engineering News* 149  
 Geometridae 94 sp. 57  
 Giesbrecht, M. G. 186  
*Glamour* magazine 115  
*Glaucomys volans* 131  
*Gleditsia triacanthos* 38  
 Glen Helen, OH 4  
 Glochidial Orientation 93-95  
*Gomphonema* 2 sp. 74  
 Gore, A., Jr. 175  
 Gott Fen State Nature Preserve, OH 102  
 Great Miami River, OH 4  
 Green Springs, OH 5  
 growth hormones 153, 182  
 Growth Inhibition Blockage in *P. Falciparum* 137-139  
 Gulf of Mexico 65  
 Gyponinae 33  
 gypsy moth 98  
  
*Hamamelis virginiana* 68  
 Hamilton County, OH 100  
 Hardin County, OH 23  
 Harris Poll 169  
 Harveysburg, OH 3  
 Hawes, R. W. 55  
 Headlands State Park, OH 2  
*Helianthus* sp. 134  
*Hemidactylum scutatum* 7  
 Hesperidae 12 sp. 56  
 Hester-Dendy multiplate samplers 41  
*Heterodermia* 2 sp. 27  
 High Biotechnology: Economic History 186-188  
 Highland County, OH 78, 103  
 Hocking County, OH 5, 27, 50, 69, 101  
 Hocking Hills State Park 8  
   Ash Cave 8  
   Cedar Falls 8  
   Old Man's Cave 8  
 Hodgson, C. P. 148  
 Hog Creek, OH 23  
 Hoggarth, M. A. 93  
 Holt, I. V. 107  
 Homing Behavior of Displaced Carp 15-22  
 Homoptera 33, 50, 131, 134  
 Houston, TX 112  
 Howland, H. J. 174  
 Hubschman, J. H. 4, 61  
 Huehner, M. K. 29  
 Huffman Prairie, OH 4  
 Huntington's disease 159  
 Hurley, R. 137  
 hybridoma technology 175  
 Hymenoptera 131  
*Hypogymnia physodes* (L.) Nyl. 27  
*Hypotrachyna* 2 sp. 27  
  
*Ichthyomyzon fossor* 6  
 Icterinae 125  
*Ictiobus* sp. 62  
*Ictalurus* 2 sp. 62  
 Iftner, D. C. 98  
 Illinois 2, 132  
   River 64  
   stoneflies 41  
 Immunex Corp. 168  
 Immuno Genetic Co. 168  
 immunosuppressive factors 182  
*Incisalia irus* (Godart) 99  
 Indian River, MI 29  
 Indiana 2, 53, 132, 134  
*Industrial Research* 24  
 industrial revolution 186  
 Institute De Zoologia Agricola, Univ. of Central Venezuela, Maracay 34

- Institute for Creation Research 115  
 Institutional Biosafety Committee (IBC) 176  
 interferons 153, 182  
 interleukins 153, 182  
 Iowa 14, 132  
 Isolation-Induced Aggression in Rats 107  
*Isoptera bilineata* 41
- Jackson County, OH 28, 36, 46  
 Jamestown, PA 15  
 Janson, R. W. 166  
 Japan 185  
 Jezerinac, R. F. 7, 46  
 John Carroll Univ. 6  
*Johnnognathus buddlei* 81  
 Johns Hopkins Univ. 174  
*Juglans nigra* 40  
*Juncus* spp. 134  
*Juniperus virginiana* 130
- Kaiser Lake, OH 100  
*Kalmia latifolia* 38  
 Kapustka, L. A. 112  
 Katzmark, R. R. 10  
 Keiser, T. D. 23  
 Kent State Univ. 6, 10  
 Kentucky 2, 53, 78, 132  
 Keybyshev Reservoir, Russia 15  
 Kirtland, J. 2  
 Kleffner, M. A. 78  
*Kochelella ranuliformis* 81  
 Konneker, W. R. 142  
 Korea 20  
 Kreier, J. P. 137  
 Kruskal-Wallis test 108
- Lacerta muralis* 2  
 Lake County, OH 67  
 Lake Cuyahoga, ancient 10  
 Lake Erie 2, 31, 64  
 Lake Hope State Park, OH 101  
 Lake Katharine State Nature Preserve, OH 36  
 Lake Mendota, WI 15  
 Lake Sammamish, CA 21  
 Lake Vesuvius, OH 101  
 Lake Winnebago, WI 15  
 Lamb, M. A. 72  
*Lampsilis* 2 sp. 29, 3 sp. 30  
*Larix laricina* (Du Roi) 102  
*Lasallia papulosa* (Ach.) Llano 27  
 Lasiocampidae 3 sp. 58  
*Lasiurus* 2 sp. 131  
*Lasmigona* 3 sp. 30, 3 sp. 93  
 Lawrence County, OH 101  
 Leafhoppers in Two Ohio Fens 134-137  
 Lepidoptera 131  
 Lepidoptera of Ohio 55-61  
*Lepomis macrochirus* 62  
*Leptodora kindtii* 62  
*Leptogium* 2 sp. 27  
*Lespedeza striata* 51  
 Leucetidae 67, 4 sp. 71  
 Lewiston, IL 51  
 Life Technologies 149  
*Ligumia masuta* Say 1817 30  
 Limacodidae 10 sp. 57  
*Limnodromus* sp. 6  
*Lindera benzoin* 38  
 Lindow, S. 175  
 Linesville Causeway "carp bowl" 15  
*Linum usitatissimum* 144  
 Lipno Reservoir, Czechoslovakia 15  
*Liquidambar styraciflua* 51  
*Liriodendron tulipifera* 38, 51  
 Little Indian Creek, OH 130  
 Little Miami River 2  
   Scenic State Park 2  
 Little Salt Creek, OH 36
- Lloyd, M. 50  
*Lobaria quercizans* Michx. 27  
 Logan County, OH 99  
 Longevity of *D. Montana* 90-92  
*Lotus* 16  
 Louisiana 63  
 Louisville, KY 103  
 Lowe, R. L. 72  
 Lubrizol 156  
 Lucas County, OH 73, 98, 125  
*Lupinus perennis* L. 99  
*Lycaeides melissa samuelis* Nabokov 99  
*Lycaena epixanthe* (Boisduval and LeConte) 103  
 Lycaenidae 5 sp. 56  
*Lymantria dispar* L. 101  
 Lymantriidae 2 sp. 59  
 Lynx Prairie, OH 8, 28
- Macrolichen Flora of Crane Hollow 27  
 Mad River, OH 4  
*magnolia* 2 sp. 36, 2 sp. 38  
 Mahoning County, OH 67  
 Mahoning River, OH 67  
 malaria 137  
*Malirekus hastatus* 67  
 Mammals of Clermont County, Ohio 130-133  
*Marmota monax* 131  
 Mason County, WV 46  
 Massachusetts Institute of Technology 150  
*Massospora cicadina* 50  
 Massassauga Trail 3  
 Maumee River, OH 5, 72  
 McLean vs. Arkansas Board of Education Equal Time Case 123  
*Medical Journal of Australia* 159  
 Medina County, OH 102  
 Meigs County, OH 28  
 Mentor Marsh, OH 6  
*Mephitis mephitis* 131  
*Meridion circulare* 74  
*Mesocyclops edax* 62  
 messenger DNA (mDNA) 162  
 Metzler, E. H. 55  
 Mexico 98  
 Miami Conservancy District 4  
 Miami-Erie Canal towpath 5  
 Miami Univ. 150  
   Ecological Research Center 112  
 Michigan 2, 102, 134  
 Michigan State Univ. 150  
*Microcystis* 16  
*Micropterus dolomieu* 21, *salmoides* 62  
*Microtus pennsylvanicus* 131, *pinetorum* 132  
 Milorganite 112  
 Milwaukee, WI 112  
 Mimallonidae 58  
*Minimana montana*, n. sp., *unistriata*, n. sp. 33  
 Mississippi River 43, 65  
 Mississippian 2  
   Cuyahoga Formation 10  
 Missouri 2  
   River 45  
 Mogadore Reservoir 6  
 molecular farming 156  
 Molecular Genetic Co. 168  
*Molothrus ater* 125  
 Monoclonal Anti. Co. 168  
 Monsanto Co. 142, 149, 152, 169, 177, 182  
 Montgomery County, OH 100  
 Moore, N. J. 23  
 Morgan, A. 4  
*Morone chrysops* 62  
 Morton Big "M" 20  
 Museum National d'Histoire Naturelle, Paris 34
- Muskingum Watershed Conservancy District 6  
*Mus musculus* 131  
*Mustela vision* 131  
*Myotis* 2 sp. 130  
*Myriophyllum* 16
- Nasturtium officinale* R. Br. 102  
 National Academy of Sciences 182  
 National Broadcasting Co. 115  
 National Environmental Policy Act (NEPA) 174, 179  
   Environmental Impact Statement (EIS) 179  
   Environmental Assessment (EA) 179  
 National Institutes of Health (NIH) 148  
 Guidelines for Recombinant DNA Research 150, 174  
 Recombinant Advisory Committee (RAC) 150, 174  
 National Research Council 182  
   Committee on Technological Options to Improve Nutritional Attributes of Animal Products 156  
 National Science Foundation 123  
*Navicula cryptocephala* 74  
 Nebraska 64  
 Nelson, E. V. 23  
 Nemouridae 67, 5 sp. 71  
*Neonympha mitchellii* French 102  
 Neotoma Valley, OH 39  
 neuroactive peptides 182  
 neuropeptides 183  
 Neuroptera 131  
 New Bremen, OH 5  
 New Gyponinae 33-35  
 New Jersey 102  
 New York City 123  
*Nitzschia dissipata* 74  
 Noctuidae 242 sp. 59 105  
 North Carolina 51  
 Northeastern Ohio Universities College of Medicine (NEOUCOM) 158  
 Notodontidae 34 sp. 58  
*Notropis lutrensis* 21, *spilopterus* 62  
*Numenius arquata* 6  
*Nymphaea* sp. 55  
 Nymphalidae 11 sp. 56  
*Nyssa sylvatica* 38
- Oak Openings Metro Park 5, 98  
 Oberlin College 115  
*Odocoileus virginianus* 131  
 Oecophoridae 3 sp. 56  
 Ohio Academy of Science 4, 142  
 Ohio Biological Survey endangered and threatened plant list 27  
 Ohio Brush Creek 8  
 Ohio Chamber of Commerce 170  
 Ohio, Dept. of Natural Resources 55  
   Division of Wildlife 3, 17, 36  
 Ohio Historical Society 3  
 Ohio Lepidoptera Society 8, 98  
 Ohio Northern Univ. Museum Collection 23  
 Ohio River 2, 46, 130  
 Ohio River Launch Club (ORLC) 42  
 Ohio River Stonefly Nymphs 41-45  
 Ohio State Museum 5  
 Ohio State Univ. 115  
   DeLong Collection 34  
   Lichen Herbarium 27  
   Micropaleontological Laboratories 80  
   Museum of Zoology 23, 30, 93  
   Newark Campus 7, 46  
   OARDC, Wooster Campus 56, 142, 150  
   Orton Geological Museum 80

- Ohio Univ. 8, 150  
Edison Animal Biotechnology Center  
142, 155
- Ontario 10
- Opsanus tau* 21
- Orconectes sloani* 7
- Ordovician fossil beds 2
- Orthocyclops modestus* 62
- Orthoptera 131
- Oulodus* 2 sp. 81
- Oxydendron arboreum* 38
- Ozarkodina* 5 sp. 81
- Pacific Grove, CA 174
- Painesville, OH 2, 6
- Panapoulos, N. 175
- Panderodus* 2 sp. 81
- Pandion haliaetus* 5
- Papilionidae 3 sp. 56
- Papua, New Guinea 98
- Parascalops breweri* 7
- Parmelia* 7 sp. 27
- Parmelina* 3 sp. 27
- Parmeliopsis* 2 sp. 27
- Parmotrema* 5 sp. 27
- Parthenocissus quinquefolia* 51
- Paspalum dilatatum* 51
- Pavlakovic, V. K. 166
- Peebles, OH 2
- Peltigera canina* (1.) Willd. 27
- Peltoperla arcuata* 67, 71
- Peninsula, OH 10
- Penn Central Railroad right-of-way 2
- Pennsylvania 10, 67, 103
- Pennsylvanian 2, Sharon Sandstone 10
- Periodical Cicada Nymphs 50
- Perlesta placida* 41
- Perlidae 5 sp. 71
- Perlodidae 6 sp. 71
- Permean 2
- Peromyscus leucopus* 131
- Petromyzon marinus* 6
- Pezizella* 113
- Phaeophyscia* 4 sp. 27
- Phragmites australis* 6
- Phyciodes* 2 sp. 103
- Physcia* 5 sp. 27, 28
- Physconia detersa* 28
- Pickaway County, OH 56, 99
- Pieridae 4 sp. 56
- Pieris napi* L. 102, 2 sp. 103
- Pike Lake State Park Forest 8
- Pimephales promelas* 21, 2 sp. 62
- Pinus* 2 sp. 38, *strobos* 50, *taeda* 51
- Pipistrellus subflavus* 131
- Piqua, OH 5
- Plant Quarantine Act (PQA) 174
- Plasmodium falciparum* 137
- Platanus occidentalis* 36, 38, 55
- Platismatia tuckermanii* 28
- Plecoptera 132
- Plecoptera in Gray's Run 67-72
- Plecoptera of the Ohio River 41
- Plethobasus cyphus* 3
- Plummer, H. K. III 107
- Point Pleasant, WV 46
- Pomoxis annularis* 62
- Ponanella trispina*, n. sp. 33, 2 sp. 34
- Pontia protodice* 103
- Portage County, OH 102
- Potentilla canadensis* 101, *fruticosa* 102, 134
- Pottsville Formation 67
- Prairiana* 2 sp. 34
- Prairie Rod Fen 134
- Premanufacture Notification (PMN) 177
- Procyon lotor* 131
- Proptera laerissima* 3
- Provo, UT 115
- Prunus serotina* 38
- Pseudoparmelia* 3 sp. 28
- Pteronarcys* sp. 43
- Pterospathodus* 3 sp. 81
- Pycnotelia papillaria* 28
- Pymatuning Lake, PA/OH 15
- Pyralidae 18 sp. 57
- Pyrgus centaureae wyandot* 101
- Pyxine* 2 sp. 28
- Quadrula cylindrica* 3
- Quercus* 2 sp. 28, 5 sp. 38, 2 sp. 53, sp. 55, 101, spp. 134
- Quiscalus quiscula* 125
- Ramalina* 2 sp. 28
- recombinant DNA 143, 162, 174
- Red Rock Preserves 28
- Reelfoot Lake, TN 62
- Regulation of Biotechnology Products  
174-181
- Reports of Unidentified Phenomenon  
24-26
- Reptiles of Ohio 5
- Resthaven Wildlife Area 102
- restriction endonucleases 153
- restriction fragment length polymorphism  
(RFLP) 144, 159
- Rhizobium meliloti* 178
- Rhododendron maximum* 36, *ponticum* 113
- Rhus toxicodendron* 51, *vernax* L. 102
- Rifkin, J. 180
- Rings, R. W. 55
- Riodininae 100
- Ritter, R. M. 55
- Rock River 44
- Roosevelt Lake, AZ 20
- Rosa multiflora* 55
- Rosegger, T. 6
- Rubus* 2 sp. 55
- Runkle, J. R. 36
- St. Johns Moraine 23
- St. Marys, OH 5
- Salix* sp. 55, 102, 134
- Sanford, J. 175
- Sassafras albidum* 38, 53
- Saturniidae 6 sp. 58
- Satyridae 4 sp. 57
- Satyrium edwardsii* 101
- Scalopus aquaticus* 7, 131
- Schenectady, NY 112
- Schneiderman, H. A. 182
- Schwartz, F. J. 15
- Science* 149, 159
- Scientific American* 159
- Scientist's Center for Animal Welfare 151
- Scioto County, OH 28, 101
- Scioto River, OH 8, 23
- Sciurus* 2 sp. 131
- Scott, I. 24
- SCUBA 29
- Secchi disk 21
- Seneca County, OH 56, 99
- Serpent Mound 2, 8
- Sesiidae 56
- Shenango River, PA 16
- Showman, R. E. 27
- Shuey, J. A. 98
- Silurian 2
- Estill shale 78
- Sistrurus catenatus* 4
- Smilax* sp. 51
- Smithsonian Institution, Washington, DC  
46
- Sohio 149
- Solidago* sp. 134
- Solomons, MD 21
- somatic cell culture 175
- South America 34
- South Carolina 169
- Specificity in *Tanaorbampus* 61-66
- Speyeria idalia* 101, *diana* 102
- Sphingidae 14 sp. 58
- Spring Valley Wildlife Area, OH 3
- Springfield Fen 134
- Springville Marsh, OH 99
- Standard and Poor's Daily Stock Price  
Record Over-The-Counter 166  
Composite Index 168
- Stander's Similarity Index (SIMI) 74
- Stansbery, D. 2
- Staphylea trifolia* 38
- Stark County, OH 55
- State Univ. of New York at Fredonia 159
- Steggles, A. W. 158
- Stillwater River, OH 4
- Stocker, G. W. 46
- Stolle Research and Development Corp.  
149
- Stoneflies in Gray's Run 67
- Streetsboro Fen 102
- Strophitus undulatus undulatus* Say 1817  
30, 93
- Strophopteryx fasciata* 42
- Sturnus vulgaris* 125
- Summit County, OH 10, 99
- Surirella* 2 sp. 74
- Sweltsa lateralis* 67
- Sylvilagus floridanus* 131
- Synaptomys cooperi* 132
- Synedra* 3 sp. 74
- Szabo, J. P. 10
- Taeniopterygidae 2 sp. 71
- Taeniopteryx burksi* 41, 42, *nivalis* 43
- Tamias striatus* 131
- Tanaorbampus longirostris* 4, 61
- Tar Hollow Forest, OH 8
- Teacher Views of Evolution-Creation  
115-125
- technological revolution 186
- Technology Unlimited 149
- Tennessee 53
- Wayne Formation 85
- Tetragoniidae 131
- Texas 44, 123
- thalassemias 159
- Thomas, E. 5
- Thyatiridae 3 sp. 57
- Thyrididae 57
- Tilia* 2 sp. 39
- Tills: Lavery, Kent, Northampton,  
Mogador 10
- Toledo, OH 5, 142
- Zoo 5
- Tortricidae 8 sp. 56
- Toxic Substances Control Act (TSCA) 174
- Trionyx spiniferus* 5
- Trautman, M. 8
- Trichoptera 131
- Tropocyclops prasinus mexicanus* 62
- Trumbull County, OH 100
- Tsuga canadensis* 38, 50, 68
- Tukey's Studentized Range Test 90
- Tuscarawas County, OH 69
- TWINSPAN 36
- Typha* sp. 55
- Ulmus americana* 36, 68, *rubra* 55, sp. 134
- Umbilicaria mammulata* 28
- Umbra limi* 7
- Unidentified Aerial Phenomenon 24
- Uniola latifolia* Michx. 103
- Unionid Mussel Substrate Preferences  
29-32

- Unionidae 93  
 U.S. Army Corps of Engineers 43  
 U.S. Congress, Office of Technology Assessment 154  
 U.S. Court of Appeals 180  
 U.S. Dept. of Agriculture (USDA) 150, 174  
   Animal and Plant Health Inspection Service (APHIS) 176  
   Veterinary Services Biotechnology Committee 179  
 U.S. Environmental Protection Agency (USEPA) 43  
 U.S. Patent Office 151  
 Univ. of Akron 10  
 Univ. of Kentucky 34  
 Univ. of Minnesota 150  
 Univ. of Pittsburgh 17  
 Univ. of Texas at Arlington 122  
 Univ. of Toledo 142  
*Urocyon cinereoargenteus* 131  
*Usnea strigosa* 28  
 VA Mycorrhizae in Sludge-Amended Fields 112-114  
*Vaccinium vacillans* 38, 2 sp. 103, *macrocarpon* 113  
 Van Allsburg, L. 125  
 Vegetation of Lake Katharine Preserve 36-40  
 Venezuela 33  
 Vermillion River, OH 31  
*Viburnum cassinoides* 36  
*Villosa iris iris* Lea 1829 30  
 Vinton County, OH 28, 101  
*Viola* 2 sp. 100, *pedata* L. 102  
 Virus-Serum-Toxin Act (VST) 174  
*Vulpes vulpes* 131  
 Wabash River 44  
 Wagner, T. E. 153  
 Walker, C. 5  
*Wall Street Journal* 159  
*Walliserodus sancticlaيري* 81  
 Washington Univ. 182  
   School of Medicine 152  
 Watercress Marsh 134  
 West Virginia 67, 103  
 West Virginia Crayfish Record 46-47  
 Western Michigan Univ., R. G. Sewall Laboratory in the Behavioral Effects of Cancer Therapy 107  
 White, A. M. 6  
 White, J. A. 50  
 White House Office of Science and Technology Policy (OSTP) 150  
   Federal Regulatory Guidelines 150, 175  
 Whitney, G. G. 36  
 Wilderness (The) 28  
 Wilderness Center (The) 55  
   Synoptic Insect Collection 56  
 Williams County, OH 100  
 Wisconsin 39, rivers 44  
 Wisconsin Tills of the Lower Cuyahoga Valley 10  
 Wolf-Hirschorn patients 159  
 Wright Patterson Air Force Base 4  
 Wright State Univ. 4  
  
*Xanthoparmelia* 3 sp. 28  
*Xanthoria fallax* 28  
  
 Yankelovich, Skelly and White survey 169  
 Yellow Springs, OH 4  
 Yoon, J. S. 90  
 Yponometidae 2 sp. 56  
  
*Zapus hudsonius* 132  
 Zimmer Power Plant 130  
 Zimmerman, M. 115