Front Matter
NOVEMBER 1966

A Second Experiment in Self-Instruction in General Biology............. Edward J. Kormondy 549
Host Range of the Erysiphaceae of Ohio C. Wayne Ellett 570
A New Locality Record for the American Brook Lamprey, Lampetra lamottei (LeSueur) in Ohio Richard A. Zura and Linda B. Scottorn 581
Lake Arkona-Whittlesey and Post-Warren Radiocarbon Dates from “Ridgetown Island” in southwestern Ontario............. A. Dreimanis 582
Preparation and Analysis by Ion Exchange Techniques of Sodium Salts of Mandelic Acid Derivatives Joseph J. Klingenberg and Hong Zoon Kim 587
Embedding Plant Material in Liquid Synthetic Resin Gabriel Seidman 590
Two New Spider Records for Ohio Theodore W. Suman 591
Convex-Concave Landslopes: A Geometrical Study J. F. White 592
Diplocardia varivesicula, A New Megascolecid Earthworm from Indiana (Oligochaeta)..... W. R. Murchie 609
Sexual Recognition in Adult Erythemis simplicollis Clifford G. Andrew 613
Spiders in Old Insect Galls on Goldenrod William E. Miller 618
Aquatic Phycomycetes Collected from the Athens State Hospital Ponds G. L. Crane and M. T. Vermillion 619
Index to Volume 66................................. 623
Book Notices.................. 553, 569, 612, 620-622
CONTENTS OF VOLUME 66

NUMBER 1—JANUARY

The Botanical Pursuits of John Samples, Pioneer Ohio Plant Collector (1836–1840)  
Ronald A. Stuckey 1

Studies of the Gyponinae: A Synopsis of the Genus Acusana DeLong (Homoptera:  
Cicadellidae)  
Dwight M. DeLong and Paul H. Freytag 42

Further Studies on Inhibition of Growth of Spores of Penicillium sp. and Aspergillus sp.  
Isolated from the White Molds of Silages  
Lad A. Pasuit and F. DeMarinis 64

The Mud Valley Site: A Late Palaeo-Indian Locality in Holmes County, Ohio  
Ole H. Prufer 68

Periodicity in Oviposition of Ostrinia nubilalis (Hbn.) (Lepidoptera: Pyraustidae)  
Karl Schurr and F. G. Holdaway 76

Comments on the Taxonomy of the Three-Spined Stickleback, Gasterosteus aculeatus  
Linnaeus  
Tadeusz Penczak 81

Treatment of the Epidemic Disease Red Leg  
Douglas L. Miller 87

A New Species of Leiophron Nees (Hymenoptera: Braconidae, Euphorinae) With Observations  
on Its Biology and that of its Host, Plagiognathus sp. (Heteroptera: Miridae)  
C. C. Loan 89

A List of Reviewers of Papers Appearing in The Ohio Journal of Science During 1965  
Book Reviews 95

NUMBER 2—MARCH

A SYMPOSIUM ON THE GEOLOGY OF INDUSTRIAL  
LIMESTONE AND DOLOMITE

Foreword  
Robert L. Bates 97

Geological Communication in the Industrial Minerals  
Robert L. Bates 98

Role of a State Geological Survey  
Lawrence F. Rooney 101

A Railroad Geologist Looks at Limestone and Dolomite  
Raymond S. Shrode 110

High-Calcium Limestone Deposits of Pennsylvania  
F. M. Swain, J. G. Palacas and J. C. Kraft 116

New York Cement Producers Adjust to Geologic Complexities  
Severn P. Brown 123

Limestone Deposits vs. Beneficiation  
John A. Ames 131

Importance of Cement Market Characteristics to the Industrial Geologist  
George H. K. Schenck and Henry N. McCarl 137

Limestone and Dolomite: Geologists and Percentage Depletion Allowances  
Byron N. Cooper 146

Water, Clay and Rock Soundness  
James R. Dunn and Peter P. Hudec 153

Sedimentology of the Salem Limestone in Indiana  
Ned M. Smith 168

Petrographic Analysis of Northern Indiana Carbonate Aggregates  
N. B. Aughenbaugh and R. W. Loomis 179

Corps of Engineers Procedure in the Development of a New Limestone or Dolomite  
Source  
James E. Brewer 188

Significance of Chert in Limestone and Dolomite Used as Concrete Aggregate  
William A. Kneller 191

Analysis of Plankton Ingested by Stizostedion vitreum vitreum (Mitchill) Fry and Concurrent  
Vertical Plankton Tows from Southwestern Lake Erie, May 1961 and May 1962  
Matthew H. Hohn 193

Some Chemical Reactions in Silica Gels I. Formation of Mercuric Iodide Crystals  
Philip F. Kurz 198

The Suspensory Muscles in a Tipulid Larva, Tipula abdominalis (Diptera: Tipulidae)  
Marjorie Eldridge 200

Observations on the Calls of the Grasshopper Mouse (Onychomys leucogaster)  
David G. Ruffer 219

Book Reviews 192, 197, 221–224
NUMBER 3—MAY

Origin of the Natural Science Sections of the Ohio Academy of Science. Ralph W. Dexter 225
Origin of the Physical Science Sections of the Ohio Academy of Science. Ralph W. Dexter 229
Peters Cave: Two Woodland Occupations in Ross County, Ohio Olaf H. Prüfer and Douglas H. McKenzie 233
Diurnal Distribution of Phytoplankton From a Single Station at the Mouth of the James River (Virginia) Harold G. Marshall 253
Some Physiological Effects of Non-Gaseous Exhaust Material from an Internal Combustion Engine Allen W. Scholl 256
The Genus Silphium in Ohio T. Richard Fisher 259
The Orobancheaeae of Ohio Karl R. Valley and Tom S. Cooperrider 264
Eriophyd Mites New To Ohio H. Y. Forsythe, Jr. and Roy W. Kings 265
Weathering in a Sangamon Paleosol A. H. Beavers and Robert L. Jones 267
A Classification of Extraterrestrial Spherules Found in Sedimentary Rocks and Till M. S. Lougheed 274
Some Chemical Reactions in Silica Gels II. Formation of Crystals of a Basic Mercuric Chloride, HgCl₂·2H₂O Philip F. Kurz 284
The Use of the Symposium in Science Education T. Edward Perry 312
A Light and Electron Microscope Survey of Algal Cell Walls. II. Chlorophyceae Clinton J. Dawes 317
The Incorporation of C¹⁴-Labeled Phenylalanine, Tyrosine, and Glucose into Corn Roots Harry H. Johnston 327
Two New Species of Acmaeodera from Southeastern Texas (Coleoptera: Buprestidae) Josef N. Knall 332
Chemical Reactions in Electrical Plasmas Gene G. Mannella 334
Vast Migrating Armies of the Millipede, Pseudopolydesmus serratus (Say) in the Dayton Region J. M. Ramsey 339
Genetics of an L₂ Venation Mutant in Drosophila melanogaster. 1. Mode of Inheritance and Expression James H. Carlson 340
A New Species of Zeriodonius from Utah (Hemiptera: Lygaeidae) Charles V. Reichard, O. P. 347
Contrasts in the Crystallization of Nickel and Cobalt Phosphates in Silica Gels Philip F. Kurz 349

Book Reviews .......................................................... 266, 273, 283, 311, 346, 348, 351, 352

---

NUMBER 4—JULY

Milestones: Ohio Academy of Science, 1891–1966 Ralph W. Dexter 353
Mineralogical and Physical Characteristics of Till in Moraines of Lasalle County, Illinois Robert L. Jones, A. H. Beavers, and J. D. Alexander 359
Seasonal and Taxonomic Differences in the Size and Activity of the Thyroid Glands in Birds S. Charles Kendeigh and Harold E. Wallin 369
Seasonal Variation in Thyroid Gland Activity in Pheasants Jack Harderode and John J. Dropp 380
Forest History of Ohio. I. Radiocarbon Dates and Pollen Stratigraphy of Silver Lake, Logan County, Ohio J. Gordon Ogden, III 387
The Genus Diogmites (Robber Flies) in Eastern United States (Diptera: Asilidae) Jorge N. Artigas 401
Some Measurements on the Quantum Yield Temperature Coefficient of the Uranyl Oxalate Actinometer at 254 Mν B. M. Norton 421
The Kansan Glaciation in Southeastern Indiana Ansel M. Gooding 426
New Solenochilus Species From the Conemaugh Series of Eastern Ohio Harold O. Frantz 433
The Ohio Academy of Science—1966–1967 .................................................. 437
Necrology .......................................................... 439
Constitution of The Ohio Academy of Science (Revised April 22, 1966) 442
Book Reviews .......................................................... 425, 452
NUMBER 5—SEPTEMBER

Origin of the Medical Sciences Section of The Ohio Academy of Science...
Ralph W. Dexter 453

Origin of the Social Science Sections of The Ohio Academy of Science...
Ralph W. Dexter 455

Endelocrinus kieri, A New Crinoid from the Ames Limestone...
Burke 459

On the Occurrence of Oklahomacrinus in Ohio and Timor...
J. J. Burke 464

Early Natural History of a Forested Area Near Dover, Ohio...
Robert H. Giles, Jr. 469

Influence of Ascorbic Acid and of Thiamine on Physiological Responses on Guinea Pigs to
High Ambient Temperature...
Francis J. Zeman and Charles G. Wilber 474

Wing and Tail Molt in the Reeves Pheasant...
Charles F. Mueller and Henri C. Selbert 489

Optical Radar and Passive Optoelectronic Ranging...
Radames K. H. Gebel 496

The Acute Toxicity of Some Pesticides to Fish...
Quentin H. Pickering and Croswell Henderson 508

Toxicity of a Microcystis Waterbloom from an Ohio Pond...
Thomas E. Maloney and Richard A. Carnes 514

Postnatal Development in Peronycus manicutatus-polionotus Hybrids I.
Developmental Landmarks and Litter Mortality...
Wallace D. Dawson 518

Enterovirus Plaque Technique: Utilization of Maintenance Medium on Agar Overlay
Without Neutral Red...
James R. Frey 523

Occurrence of the Hoary Bat (Lasiurus cinereus) in Ohio...
Jack L. Gottschang 527

Aquatic Insects as Inhalant Allergens: A Review of American Literature...
E. B. Henson 529

A Note on the Freshwater Polychaete, Manayunkia speciosa Leidy, from California and
Oregon...
Charles Richard Hazel 533

New Species of Ostracodes from the Silica Formation (Middle Devonian) in Northwestern
Ohio...
Robert J. Pauken 536

Book Reviews...
473, 488, 493, 513, 517, 522, 535, 547, 548

NUMBER 6—NOVEMBER

A Second Experiment in Self-Instruction in General Biology...
Edward J. Kormondy 549

Studies of the Gypoinae: A Synopsis of the Genus Hamana DeLong (Homoptera:
Cicadellidae)...
Dwight M. DeLong and Paul H. Freytag 554

Host Range of the Erysiphaceae of Ohio...
C. Wayne Ellett 570

A New Locality Record for the American Brook Lamprey, Lampetra lamottei (LeSueur) In
Ohio...
Richard A. Zura and Linda B. Scothorn 581

Lake Arkona-Whittlesey and Post-Warren Radiocarbon Dates from “Ridgetown Island”
in Southwestern Ontario...
A. Dreimanis 582

Preparation and Analysis by Ion Exchange Techniques of Sodium Salts of Mandelic Acid
Derivatives...
Joseph J. Klingenberg and Hong Zoon Kim 587

Embedding Plant Material in Liquid Synthetic Resin...
Gabriel Seidman 590

Two New Spider Records for Ohio...
Theodore W. Suman 591

Convex-Concave Landscapes: A Geometrical Study...
J. F. White 592

Diplocardia varivesicula, A New Megascolecid Earthworm from Indiana (Oligochaeta)
W. R. Murchio 609

Sexual Recognition in Adult Erythemis simplicollis...
Clifford G. Andrew 613

Spiders in Old Insect Galls on Goldenrod...
William E. Miller 618

Aquatic Phycomycetes Collected from the Athens State Hospital Ponds...
G. L. Crane and M. T. Vermillion 619

Index to Volume 66...
623

Book Notices...
553, 569, 612, 620-622