

JOURNAL OF THE Tennessee Academy of Science

Volume LIV

Number 4

VOLUME LIV, 1979

NUMBER 1, JANUARY

Sedimentation of Crossbedded Megaripple Trough-fill Near Sewanee and Signal Mountain, Tennessee. Edward Robbs and Richard E. Bergenback	1
Biographical Data in Serial Publications of the Tennessee Academy of Science. James X. Corgan and Saron R. Tanner	5
Indirect Ordination of Foreset Stands of the Northwest Highland Rim. Richard J. Jensen	10
Thompson's Pigmy Shrew, <i>Microsorex Thompsoni Winnemana</i> , in Tennessee. Michael L. Kennedy, Michael C. Wooten, and Michael J. Harvey	14
An Annotated List of Trichoptera (Caddisflies) of Tennessee. David T. Etnier and Guenter A. Schuster ..	15
An Index to Geological Mapping Associated with Theses and Dissertations at the University of Tennessee, Knoxville (Through 1975). Michael L. Jones	23
A Sufficiency Condition for Pointwise Convergence. Lyndell M. Kerley	29
Spectrophotometric Determination of Nitrite in Human Saliva. Carl T. Bahner	30
Atlas of the Vascular Plants of Tennessee. I. Pteridophytes and Gymnosperms. B. Eugene Wofford and A. Murray Evans	32
Properties of Scattering Amplitudes Whose Partial Waves Decrease Exponentially. Ronald E. Mickens	38
TAS News, Events and Announcements	40

NUMBER 2, APRIL

New President of the Tennessee Academy of Science	41
A Report of the Biological Field Stations of Tennessee. Wintfred L. Smith	42
Tech Aqua Biological Station. Robert E. Martin	42
E. J. Meeman Biological Field Station. Neil A. Miller ..	42
Environmental Toxins: Highlights of the 1978 Theme. James D. Caponetti	43
Plants Toxic to Man and Animals. R. D. Linnabary	43
Toxicology of Thermodegradation and Combustion Products of Man-Made Materials. W. H. Lawrence and J. Autian	45
Heavy Metals: Routes of Exposure and Consequences. H. A. Moses	46
Trihalomethanes in Drinking Water. R. A. Minear, J. C. Bird, and D. E. Johnson	49
Biochemical Detoxification Mechanisms in Herbivores. L. B. Blatisten	52
Ecotoxicology and the Toxic Substances Control Act. W. G. Rosen	54
Proceedings of the Tennessee Academy of Science	56
Abstracts Presented at the Annual Meeting	63
Atlas of the Vascular Plants of Tennessee II. Magnoliidae: Aristolochiales, Magnoliales, Nymphaeales, Papaverales, Ranunculales. B. Eugene Wofford and A. Murray Evans ..	75
TAS News, Events, and Announcements	42 & 81

NUMBER 3, JULY

Stratigraphic Framework and Depositional Environments, Lower Pennsylvanian Rocks, Dorian Cove Area. Richard Ketelle, Randall Wilson and Richard E. Bergenback	81
Forest Microclimate in The Great Smoky Moutains. David J. Hicks	84
Black Gum—Exclusive Host of Mistletoe in Lawrence County, Tennessee. Thomas E. Hemmerly, Ann A. Forsythe and Melody L. Womack	89
Francis G. Slack—Distinguished Tennessee Scientist.	

Joseph H. Hamilton, Robert T. Lagemann and Ernest A. Jones	91
Metabolism of Butylated Hydroxyfoluene in Mice, Radioactivity Associated with Blood and Expired Carbon Dioxide After Administration of ¹⁴ C Butylated Hydroxytoluene. Harold Franks, J. Patrick Daugherty, Lois Beech, Alan Dean, Jerry Dees, Rene Dees, Phil Halmeson and Penny Mauldin	95
Subsurface Distribution of Pennsylvanian Gizzard Group, Northwestern Marion County, Tennessee. Wayne Williams and Richard E. Bergenback	98
Plant Species on The Department of Energy—Oak Ridge Reservation That Are Rare, Threatened or of Special Concern. Patricia Dreyer Parr and Fred G. Taylor Jr. ..	100
Antitumor Agents Constituents of an East Tennessee Population of <i>Helenium Amarum</i> (RAF). H. Rock. Thomas G. Waddell, Marion B. Ridley, Keith D. Evans, and Margaret E. Green	103
Correlations of Host Specificity With Host Habitat in Helminths Parasitizing The Plethodontids of Washington County, Tennessee. J. R. Dunbar and J. D. Moore ..	106
Effects of Stripmining on Fish and Diatoms in Streams of The New River Drainage Basin. Gerald L. Vaughan ..	110
The Distribution of Ruffed Grouse in Tennessee. Douglas White and Ralph W. Dimmick	114
Time of Annulus Formation of Bluegills in Three Central Tennessee Lakes. Frank J. Bulow and J. Fred Heitman	116
Host Specificity of Mistletoe in Middle Tennessee IV: Bedford County. Peggy F. Brown and Thomas E. Hemmerly	118
The Lizards of The Upano Valley of Southeastern Ecuador. Charles M. Fugler and A. Brad Walls	120
An Immunological Comparison of Thrombocytes From Burssectomized and Intact Chickens. Carol Grigg, Cynthia Chappell, and Marion Wells	122

NUMBER 4, OCTOBER

Table of Contents, Volume LIV, 1979	125
Seed Propagation of the Roan Mountain Bluet. Robert E. Farmer, Jr.	126
Analysis of the Electrophoretic Pattern of Nonspecific Esterases of Black Bear Serum. J. Patrick Daugherty, Diane K. Beeman and Michael R. Pelton	128
Long-Term Changes in Zooplankton Species Composition and Selected Physicochemical Parameters in Woods Reservoir, Tennessee. James L. Elmore and Dewey L. Bunting	132
Identification of Some Sympathomimetic Amines by Thin Layer Chromatography (TLC). Jitendra J. Shah and Ramila J. Shah	137
Woody Plants of the Gorges of the Cumberland Plateau and Adjacent Highland Rim. Donald Caplenor	139
Nesting Habits of Rural and Suburban House Sparrows in Northwest Tennessee. T. David Pitts	145
The Anura (Amphibia) of Rio Upano Valley of Eastern Ecuador. Charles M. Fugler and A. Brad Walls	149
Abstracts of Papers Presented at the Spring Collegiate Meetings	157
Index to Volume LIV, 1979	161
TAS News Events and Announcements	136, 138, 156, 160, 164