

# JOURNAL

OF THE PENNSYLVANIA ACADEMY OF SCIENCE



Founded on April 18, 1924

ISSN: 1044-6753

January 1999  
Volume 72, Number 2

Shyamal K. Majumdar, Ph.D.  
Editor  
Department of Biology  
Lafayette College  
Easton, PA 18042-1778

## Contents

### Journal Information

- |   |    |
|---|----|
|   | 42 |
| <b>BIOLOGY: Effects of Three Sewage Treatment Plants on Water Quality of the Lackawanna River (Lackawanna County, Pennsylvania)</b><br>David H. Byman, Daniel S. Townsend, Joseph C. Calabro, Raymond M. Ciampichini, Michele Griguts, Jeanne Neureuter, Alan R. Pratt and Gretchen Spott | 43 |
| <b>BIOLOGY: Recovery and Management Program for Loggerhead Shrikes (<i>Lanius ludovicianus</i>) at Eisenhower National Historic Site and Vicinity, Adams County, Pennsylvania</b><br>Richard H. Yahner, Gretchen G. Young and Gregory S. Keller   | 47 |
| <b>BIOLOGY: The Vegetation of an Intermittent Island in the Susquehanna River, 1993-1997</b><br>Charles B. Reif and Albert Timko  | 55 |
| <b>BIOLOGY: Persistence of Fecal Coliforms in Laboratory Microcosms of Stream Sediments</b><br>Fred J. Brenner, Terri Muller and Paula McBride  | 61 |
| <b>BIOLOGY: Temperature and Nutritional Requirements of <i>Thermoascus aurantiacus</i></b><br>James J. Depleoy  | 68 |
| <b>RESEARCH NOTE: Morphological Variation of Mutant Strains of <i>Aspergillus nidulans</i>: An SEM Study</b><br>James H. Birkholz, Steven W. James and A. R. Cavaliere  | 73 |
| <b>RESEARCH NOTE: Sex-Specific Habitat use by Eastern Towhees in a Managed Forested Landscape</b><br>Amy R. Lewis and Richard H. Yahner   | 77 |
| <b>PAS BOOKS</b>  | 80 |