# VIRGINIA JOURNAL OF SCIENCE
OFFICIAL PUBLICATION OF THE VIRGINIA ACADEMY OF SCIENCE

Vol. 61 No. 1 & 2 Spring/Summer 2010

## TABLE OF CONTENTS

### ARTICLES

Garlic as an Alternative Anthelmintic in Sheep.  
*A. Curry* and *B. D. Whitaker*  
4

### ABSTRACTS OF PAPERS, 88th Annual Meeting of the Virginia Academy of Science, May 20 - 21, 2010, James Madison University, Harrisonburg, VA

### SECTION ABSTRACTS

- Aeronautical and Aerospace Sciences 11
- Agriculture, Forestry and Aquaculture Science 12
- Astronomy, Mathematics and Physics & Materials Science 17
- Biology and Microbiology & Molecular Biology 19
- Biomedical and General Engineering 26
- Botany 29
- Chemistry 33
- Computer Science 39
- Education 40
- Environmental Science 41
- Medical Science 46
- Natural History & Biodiversity 56
- Psychology 58
- Statistics 63
- Structural Biology, Biochemistry and Biophysics 65

### 2010 JUNIOR ACADEMY AWARDS

69

### IVEY F. LEWIS DISTINGUISHED SERVICE AWARD

J. SARGEANT REYNOLDS COMMUNITY COLLEGE  
LISA. L. MARTIN 88


91

### AUTHOR INDEX

93