

1998 BEST STUDENT PAPER AWARDS

Aeronautics and Aerospace Sciences

Best Paper

Mohamed Elseifi

AOE Dept., VPI & SU

Effects of Probabilistic Variations in Manufacturing Variables on Process-Induced Imperfections in Laminated Composites

Honorable Mention

Darin D. Schultz

AOE Dept. VPI & SU

A Shell-to-Solid Transition Finite Element for Improved Interlaminar Stress Response in Composite Laminates

Astronomy, Math and Physics

Best Paper

Russ Neufeld

Physics Department, JMU

A Plasma-Aided Annealing Furnace for Processing III-V Nitride Semiconductors

Honorable Mention

Justin Voshell

Physics Department, JMU

Developing Computer Controls for a Remote Control Laser Calibration System for Jefferson Lab

Biology

Best Paper

Alicia M. LoGalbo

Dept. of Biology, Old Dominion University

Long Term Trends in Microzooplankton Communities of the Lower Chesapeake Bay

Honorable Mention

Matthew B. LoVern

Department of Biology, VPI & SU

Comparisons of Temporal Display Structure Across Contexts and Populations in male *Anolis carolinensis*

Honorable Mention

Tara Harris

George Mason University

Reintroduction of a Silerback Male Gorilla into a Social Group

Geography**Best Paper**

Matthew A. Bechdol
Department of Geography and Earth Science, George Mason University
An Evaluation of Spaceborne Radar Texture Analysis for Land Cover Mapping

Honorable Mention

Rhonda Maluia
Department of Political Science and Geography, Old Dominion University
Spatial Pattern of Bark Beetle Inpestation: Analysis of Vegetative Change on Chincoteague Island National Wildlife Refuge

Geology**Best Paper**

Alexander Karlsen
Department of Biology, George Mason University
Responses of Benthic Foraminifera to Historical Changes in Dissolved Oxygen and Salinity in Mesohaline Chesapeake Bay

Honorable Mention

Scott E. Lewis
Department Of Ocean, Earth and Atmospheric Sciences, Old Dominion University
Mobility of Cd, Pb and Zn in Contaminated Soils as Influenced by Organic Matter and Iron Oxides

Honorable Mention

Brandan Cox
Department of Geology, Radford University
Design and Development of Multimedia Teaching/Learning Modules of College-level Mineralogy: an interactive CD-Rom Approach

Environmental Science**Best Paper**

M.E. Thurmond
Department of Chemistry, George Mason University
 Soxhlet versus Sonication Extraction from Aquatic Sediments

Honorable Mention

Henrietta Bullinger
Department of Biology, George Mason University
Chesapeake Bay restoration: The role of Public Participation in Policy Process and Implimentaion

Honorable Mention

Johanna V. Weiss

Department of Biology, George Mason University

Iron-oxidizing Bacteria in the Rhizosphere (root zone) of Wetland Plants: A Survey of a New Microbial Niche

Materials Science**Best Paper**

Vincent H. Hammond

Materials Science and Engineering, University of Virginia

Creep Response of Tow Basal Hybrid Fibers"

Honorable Mention

Alexandra Landsberg

George Mason University

Molecular Dynamics of Thermal Conductivity in Two and Three Dimensional Solids

Honorable Mention

Todd A. Bullions

Chemistry/Chemical Engineering, VPI & SU

Manufacture and Mechanical Properties of High Performance Reactive Poly (ether imide)/Carbon Fiber Composite

Medical Sciences**Best Paper**

Vera Campbell

Department of Pharmacology and Toxicology, Virginia Commonwealth University

The Effect of Morphine on ATP-gated Potassium Channels Following Tolerance and Withdrawal

Honorable Mention

Asimah Rafi

Department of Biology, VPI & SU

Evidence for the Involvement of Fas Ligand and Perforin in the Induction of Vascular Leak Syndrome

Natural History and Biodiversity**Best Paper**

Hannah Revis

Biology Department, Old Dominion University

Parasitic and Nonparasitic Ectoparasites in Abandoned Songbird Nests

Psychology

Best Paper

Tammy L. Bess
Psychology Department, Old Dominion University
The Generation Effect: Problem Type and Strategy Use

Honorable Mention

Tadzia J. GrandPre'
Washington and Lee University
Unilateral Lesions of the Hippocampus Result in Circling Behavior: Effects on the Dopamine System

Statistics

Best Paper

Roger D. Gill
Department of Biostatistics, Virginia Commonwealth University
Estimating the Variance of a Desirability Function

Honorable Mention

Robert E. Zarnich
George Mason University
Modern Tracking of Underwater Acoustic Signals