

Dr. Andrew Mount

Education

University of Tampa Biology BS 1980, Minor in Chemistry

College of Charleston Marine Biology MS 1991

Clemson University Zoology PhD 1999

Clemson University Postdoctoral fellow - NSF EPSCOR 2000 – 2002

Appointments

Clemson University Genomics Institute, research faculty, September, 2007

Medical University of South Carolina, full graduate faculty, March 2007 -present
Clemson University; Adjunct Asst. Professor, Dept. of Biological Sciences, 2000-present

Clemson University; Lecturer, Dept. of Biological Sciences, 1998-present

Tri-County Technical College; Adjunct Instructor, Biology, 1999- 2001

Anderson College; Adjunct Professor, Biology, 1998-present

Biotechtronix, Inc; Founder and CEO, 1994-1998

SC Sea Grant Consortium; Research Analyst, 1986-1989

National Marine Fisheries Service, Chemical Technician, 1984-1986

Township Committeeman, elected official, 1981-1984

Society Memberships

American Chemical Society (ACS)

American Association for the Advancement of Science (AAAS)

National Shellfisheries Association (NSA)

Research Interests

Materials science of marine invertebrates with emphasis on biomineralization and biofouling Molluscan Immunology.

Publications

Johnstone, M. B; S. Ellis; A. S. Mount. 2008 Visualization of shell matrix proteins in hemocytes and tissues of the Eastern Oyster, *Crassostrea virginica*. J. Exp. Zool. (Mol. Dev. Evol.)310B:227-239.Link

Myers, J. M., M.B. Johnstone, A.S. Mount, H. Silverman, A.P. Wheeler. 2007 TEM immunocytochemistry of a 48 kDa MW organic matrix phosphoprotein produced in the mantle epithelial cells of the Eastern oyster (*Crassostrea virginica*), *Tissue & Cell*, 39:247-256.Link

A.P. Roberts, A.S. Mount, B. Seda, R. Qiao, S. Lin, P.C. Ke, A.M. Rao, and S.J. Klaine, 2007.

In vivo biomodification of lipid-coated carbon nanotubes by *Daphnia magna*. *Environ. Sci. Technol.* 41, 3025.Link

Qiao, A.P. Roberts, A.S. Mount, S.J. Klaine, and P.C. Ke, 2007. Translocation of C60 and Its Derivatives Across a Lipid Bilayer, *Nano Lett.* 7, 614.Link

Y. Wu, Q. Lu, J. S. Hudson, A.S. Mount, J.M. Moore, A.M. Rao, E. Alexov and P.C. Ke, 2006. Coating Single-Walled Carbon Nanotubes with Phospholipids, *J. Phys. Chem. B* 110,2475Link

S. Lin, G. Keskar, Y. Wu, X. Wang, A.S. Mount, S.J. Klaine, J.M. Moore, A.M. Rao and P.C. Ke, 2006. Detection of Phospholipid-Carbon Nanotube Translocation Using Fluorescence Energy Transfer," *Appl. Phys. Lett.* 89, 143118-1.

Q. Lu, J.M. Moore, G. Huang, A.S. Mount, A.M. Rao, L.L. Larcom and P.C. Ke, 2004. RNA Polymer Translocation with Single-Walled Carbon Nanotubes," *Nano Lett.* 4, 2473.

A.S. Mount, A.P. Wheeler, R.P. Paradkar, and D. Snider 2004. Hemocyte –Mediated Shell Mineralization in the Eastern Oyster. *Science* 304, 297Link

C.S. Sikes, A.P. Wheeler, A. Wierzbicki, A.S. Mount, and R.M. Dillaman. 2000. Nucleation and growth of calcite on native versus pyrolyzed oyster shell folia. *Biol. Bull.* 198, 50Link

Mount et al. April 8, 1997. Colorimetric Titration Method and Apparatus, U.S. Patent #5,618,495

Graduate Students (primary advisor)

Elizabeth Falwell, Ph. D., Biological Sciences, Fall 2008 – present

Karthikeyan Pasupathy, M.S. Biological Sciences and Biophysics, Fall 06-graduated Aug 08

Neeraj Gohad, Ph D., Biological Sciences, Fall 2004 - graduated 9 May 08