

HELEN A. HARRISON

EDUCATION

Master of Science, Microbiology, September, 1999
Virginia Polytechnic Institute and State University, Blacksburg, VA
Thesis: Phenotypic and Molecular Characterization of the Beetle Pathogens *Paenibacillus popilliae* and *P. lentimorbus*. **Advisor:** Dr. Allan A. Yousten

Bachelor of Science, Biology (Microbiology option); Minor: Chemistry, May 1997
Virginia Polytechnic Institute and State University, Blacksburg, VA

Associate of Science, Science, May 1995
Virginia Western Community College, Roanoke, VA

RELATED EXPERIENCE

Research

Graduate Research Assistant, Department of Biology, V.P.I. & S.U., Summer 1998 and Summer 1999

·Designed and performed experiments related to thesis.

Undergraduate Research, Department of Biology, V.P.I. & S.U., Aug 1996-May 1997

·Used the polymerase chain reaction to detect the presence of two types of bacterial toxins, one of which has been found to be lethal to mosquito larvae upon ingestion. Screened multiple *Bacillus sphaericus* strains for the presence of genes encoding the toxins.

·Isolation of bacterial mutants resistant to various antibiotics and determination of the feasibility of plasmid DNA transfer via electroporation in *Bacillus popilliae*.

Teaching

Graduate Teaching Assistant, Department of Biology, V.P.I. & S.U.

·Laboratory instructor for General Microbiology, Spring 1999

·Laboratory instructor for General Biology and Principles of Biology, Fall 1998

·Laboratory instructor for undergraduate Soil Microbiology, Spring 1998

Student Assistant, Department of Biology, V.P.I. & S.U., Aug 1996-Dec 1997

·Assisted with implementation of an online general microbiology course; developed self-study guidelines and quiz and test questions; set up text files for online quizzes and tests.

·Assisted with general biology and microbiology courses. Graded discussion questions that were designed to relate course material to current events. Held help sessions for the general microbiology class.

ABSTRACTS & PRESENTATIONS

Harrison, H.A., A.A. Yousten, and P.J. Shannon. Phenotypic and Molecular Characterization of the Beetle Pathogens *Paenibacillus popilliae* and *P. lentimorbus*. Presented at the national American Society for Microbiology meeting, June 1999.

Harrison, Helen A. and Allan A. Yousten. Identification of the Milky Disease Pathogens, *Bacillus popilliae* and *Bacillus lentimorbus*. Presented at the Virginia Branch American Society for Microbiology meeting, December 1998.

PROFESSIONAL MEMBERSHIPS

American Society for Microbiology