**HEATHER E. FOGELL**

1085 Richmond Road Lancaster, PA 17603 (717) 872-1592

**OBJECTIVE**

To gain experience and knowledge necessary to be an effective science educator and a true practicing professional in the field of science education.

**EDUCATION**

1993 B.S.Ed., Biology Education, Millersville University of Pennsylvania

PA Instructional II Biology Teaching Certification

2000 M.S., Biology, Millersville University of Pennsylvania

Emphasis on Recombinant Yeast Genetics

**TEACHING EXPERIENCE**

***Biology Teacher* 1997 - Current**

***Red Lion Area School District*** *Red Lion, PA*

Currently Teaching College in the High School Biology (w/ HACC), and College Preparatory Biology, and Alternative Education Biology.

Experience teaching Honors Biology, Global Biology, and Co-taught Global Biology.

Devised curriculum and taught various levels of biology and general science.

Obtained >$20,000 in Grants from Alumni Association for use of technology in the classroom.

Classroom For the Future (CFF) technology innovation participant.

Coordinated and maintained $2.5 million Donation Including Scanning Electron Microscope and peripherals.

Served on committees for curriculum council, and technology.

Implemented science fair, 4th Grade Environmental Days Program, and Envirothon team.

***Temporary Part Time Faculty* Fall 2005 - Current**

***Millersville University Biology Department*** *Millersville PA*

Taught BIO473 Colloquium on “Methods of Teaching Biological Issues”.

Instructed Bio211 “Zoology” & BIO100 “General Biology” Lab sections.

***Microbiology Laboratory Instructor* Fall 1997**

***Harrisburg Area Community College*** *Harrisburg, PA*

Facilitated instruction on common microbiological techniques.

Initiated student exploration of general techniques through organized experiments.

***Biology Teacher* 1993 – 1997**

***Coatesville Area School District*** *Coatesville, PA*

Devised curriculum and taught various levels of biology and field biology.

Obtained >$30,000 in grants form NASA and Lukens Steel to develop a nature trail and implement an environmental classroom with a weather station.

Served on committees for curriculum development and standards assessment.

Developed and coached an Envirothon team to 3rd place in Chester County.

**AWARDS / APPOINTMENTS**

2012 Franklin & Marshall College Biosafety Committee Member

2007 & 2011 Nominations to the Pennsylvania Outstanding Biology Teacher Award from National Science Teacher’s Association.

2007 Center for Disease Control and Prevention Science Ambassador

1996 Outstanding Service Award from the Coatesville Area School Board.

1993-1997 Recognition of Service Award from the Coatesville Area School Board.

**PRESENTATIONS**

Invasive Species – WIKI as mash-up: A Study of Invasive Species Integrating Multimedia Through Wikispace Development in Cooperative Groups.

2/26/09 PA Classrooms For the Future Regional Science Collaboration Day

Pseudouridine Synthases do not Have a General Effect on the Rate of Recombination in Yeast.

3/1/03 Hershey Medical Center Genetics Symposium

4/11/03 Millersville University Student Research Conference

4/12/03 Commonwealth of Pennsylvania University Biologists

Effects of *DEG1* Mutation on *HOT1*–Dependent Genetic Recombination in *S. cerevisiae* do not Result Solely from Changes in Transcription.

12/12/99 American Society for Cell Biology Annual Meeting

12/20/99 Millersville University Master’s Thesis Defense

**PUBLICATION**

DEG1, encoding the tRNA:pseudouridine synthase Pus3p, impacts HOT1-stimulated recombination in Saccharomyces cerevisiae. C. E. Hepfer, S. Arnold-Croop, H. Fogell, K. G. Steudel, M. Moon, A. Roff, S. Zaikoski, A. Rickman, K. Komsisky, D. L. Harbaugh, G. I. Lang and R. L. Keil. Molecular Genetics and Genomics. Volume 274, Number 5. December 2005.