

## **Sarah Satorius Vandermeer**

St. Charles Preparatory School  
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### **Education:**

The Ohio State University, Columbus, OH. Ph.D. Curriculum and Instruction - 1988  
Northern Illinois University, Dekalb, Ill. M.S. Microbiology – 1975  
University of New Mexico, Albuquerque, New Mexico. B.S. Biology, Education 1972

### **Professional Positions:**

1. Honors and AP Physics teacher, St. Charles Preparatory School, Columbus OH 1995 – present  
Dual Enrollment Physics Teacher, Ohio Dominican College, Columbus, Ohio 2008 – 2017
2. ETS APCAS Physics I Syllabus Project 2012
3. ETS AP Physics Reader (grading AP Physics Exams) – summers 2003-2021
4. National Math and Science Institute Student Study Session presenter. 2013-2019
5. Presenter, Ohio State University NSEC Workshop on Nanotechnology Engineering for 8-12 teachers. 2008 – 2012
6. Adjunct Instructor, Biological and Physical Sciences, Columbus State Community College  
1983 – 1995 Taught: Natural Science 101, 102, 103, Biology 100, Chemistry 112, 11

### **Major Professional Experience:**

Instruction at the College level:

- AP Physics 1, AP Physics 2, AP Physics C-Mechanics, AP Physics C-E&M, Honors Physics, algebra-based at St. Charles Preparatory School
- Education; Methods in elementary and secondary science teaching including supervision of student teachers.
- Dual Enrollment Physics 119 and Physics 120 Ohio Dominican University

Instruction at the Secondary Level:

- Chemistry, physics, metric math, general math, algebra I, algebra II, geometry, trigonometry, consumer math and statistics. Most of this was taught through Durham technical institute and the prison program at Urbana College

### **Honors**

Certificates of Appreciation for Excellence in Teaching:

Ohio Dominican University 2004,  
St. Vincent College 2006,  
University of Cincinnati 2006  
University of Toledo, 2010,

Superior Student Support Award St. Charles Preparatory School 1999  
Distinguished Teaching Award Columbus State Community College 1992  
Full Graduate Teaching Assistantship, The Ohio State University, 1983 – 1985

**Publications:**

Vandermeer, Sarah. *The Art of Electrospinning*. The Science Teacher, September 2010

Vandermeer, Sarah. *Introductory and AP Physics Homework Hints*. St. Charles Press  
Columbus, Ohio 2004

Vandermeer, Sarah. *Advanced Placement Hands on Physics 2015 Ed.*  
Satorius Press Columbus, Ohio 2004 (1<sup>st</sup> edition in 2002)

Vandermeer, Sarah. *Hands on Physics at St. Charles 2015 Ed.* Satorius Press  
Columbus, Ohio 2004

(1<sup>st</sup> and 2<sup>nd</sup> editions in 1999 and 2001, 3<sup>rd</sup> and 4<sup>th</sup> editions, 2004, 2007,  
5<sup>th</sup> and 6<sup>th</sup> edition 2009, 2011-2018)

Vandermeer, Sarah A *Qualitative Study of Lecture Strategies in a High School Chemistry  
Class*. Dissertation. The Ohio State University 1988

**Co Author or Contributing Writer:**

Lab Activities for NSEC Nanotechnology Engineering Workshops.

*Measuring the Visible to Understand the Invisible*

*Measuring Magnetic Field Strengths*

*Measuring the Large and Small*

*Nanofibers On Your Clothes*

*Wavelength and Resolution*

*Rheology and Nanoscale Suspension Behavior*

Natural Science I textbook, Columbus State Community College 1990

Natural Science I Laboratory Manual, Columbus State Community College 1992

Natural Science II Laboratory Manual, Columbus State Community College 1993

Natural Science III Laboratory Manual, Columbus State Comm. College 1993