The Millersville University College of Science and Technology is pleased to sponsor “Spotlight on Science”, an ongoing program designed to stimulate interest in mathematics, science and technology among elementary and secondary students.

The program, which began during the 1990 spring semester, features presentations by University professors covering a variety of topics in applied engineering, safety & technology, biology, chemistry, computer science, earth sciences, geography, mathematics, nursing, and physics.

Presentations by our faculty may include scientific demonstrations, information on careers, or descriptions of our faculty members’ research interests. These presentations can enrich your own science classes, and encourage young scholars to consider careers in science.

If you are interested in having one of our faculty speak to your students, please contact the faculty member directly in order to make arrangements for a presentation.

~Topic Areas to Choose From~

- Applied Engineering, Safety & Technology
- Biology
- Chemistry
- Computer Science
- Earth Sciences
- Geography
- Mathematics
- Nursing
- Physics
~Topic Areas to Choose From~

Please contact the desired faculty member(s) for more information through the hyperlink on their name

### Applied Engineering, Safety & Technology

**Dr. Mark Atwater**
- **Materials Science** (7-12)
- **Modern Manufacturing** (7-12)
- **Nanoscience & Technology** (7-12)

**Dr. Sharon Brusic**
- **Hydroponics** (7-12)

**Dr. Mehdi Khalighi**
- **Health & Safety** (7-12)

**Dr. Len S. Litowitz**
- **Mechanisms** (6-12)
- **Alternative Energy** (3-12)
- **Building Energy Conservation** (9-12)
- **Basic Electricity** (3-6)
- **Control Logic** (6-8)
- **Trusses & Structures** (3-6)

**Dr. Scott A. Warner**
- **Design Thinking** (6-12)
- **Creativity** (6-12)

### Biology

**Dr. Jean Boal**
- **Cephalopods** (7-12)

**Ms. Elaine Chrissos**
- **What is a Respiratory Therapist?** (7-12)
- **Controlling Asthma** (7-12)

**Dr. Susan DiBartolomeis**
- **Ethical Considerations of Genetic Engineering** (10-12)
- **Genetics of Cancer** (10-12)

**Dr. Dominique Didier**
- **Sharks!** (1-12)
- **The Science of Taxonomy and Systematics** (1-12)
- **Weird and Wonderful Marine Creatures** (1-12)

**Dr. Aaron Haines**
- **Wildlife** (1-12)
- **Conservation** (1-12)

**Dr. John Hoover**
- **Biology of the Brain** (6-12)

**Dr. James Moné**
- **Medical Microbiology and Immunology** (9-12)
- **Bacterial and Viral Diseases** (9-12)
- **Clinical Laboratory Sciences** (9-12)

**Dr. Joel Piperberg**
- **Color Vision** (1-12)
- **Steroid Control of Gene Expression** (7-12)

### Biology Cont.

**Dr. Ryan Wagner**
- **Plant-Insect Interactions** (4-8)
- **Plant Physiology/Biochemistry** (9-12)
- **Chemical Ecology** (9-12)

**Dr. John Wallace**
- **Forensic Science** (10-12)
- **Forensic Entomology** (10-12)
- **Invasion Ecology** (10-12)
- **Entomology** (1-6)

**Dr. Lavern Whisenton-Davidson**
- **Mosquitos** (1-12)

**Dr. Daniel Yocom**
- **Mycorrhizae** (7-12)
- **Mushrooms and Fungi** (1-6)

### Chemistry

**Dr. Steven Kennedy**
- **Flavors & Smells** (10-12)
- **Medicinal Chemistry** (10-12)
- **Toxicology** (10-12)

**Dr. Lyman Rickard**
- **Chemistry Magic Show** (3-12)
- **Paper Chromatography** (4-8)
- **Properties of Common Chemicals in the Home** (5-8)
- **Oxidation-Reduction Reactions** (9-12)

**Dr. Kathyn Allen**
- **Acid Base Chemistry** (3-5)
- **Polymer Gummy Worm & Volcanic Candy** (6-8)
- **Biodegradable Plastics** (10-12)

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*Note: Grade levels are noted in parenthesis after the topic*
~Topic Areas to Choose From~

Please contact the desired faculty member(s) for more information through the hyperlink on their name.