

S.O.S

Spotlight On Science

The Millersville University School of Science and Mathematics is pleased to sponsor "Spotlight on Science," an ongoing program designed to stimulate interest in science and mathematics among elementary and secondary students. The program, which began during the 1990 spring semester, features presentations by University scientists and mathematicians covering a variety of topics in biology, chemistry, computer science, earth sciences, mathematics, nursing, and physics. Presentations by our faculty may include scientific demonstrations, information on careers in science, 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 scientists or mathematicians speak to your students, please contact the faculty member directly, between the hours of 8:00 a.m. and 4:30 p.m., in order to make arrangements for a presentation.

Note: If the faculty member has not had an FBI check and one is required, a presentation will not be possible.

Faculty/Topics	Phone	Grade Level
CHEMISTRY		
<i>Dr. Patricia Hill</i>	872-3421	
•Chemistry and Crime		10-12
•Chemistry of Artists' Materials		10-12
•Science and the Conservation of Paintings		10-12
<i>Dr. Lyman Rickard</i>	872-3429	
•Chemistry Magic Show		3-5
•Paper Chromatography		4-8
•Properties of Common Chemicals in the Home		5-8
•Oxidation-Reduction Reactions		9-12
<i>Dr. Robert Wismer</i>	872-3661	
•Acid Base Chemistry		1-6
•History of Chemistry		7-12
•Industrial Chemistry		10-12
COMPUTER SCIENCE		
<i>Dr. Stephanie Elzer</i>	872-3470	
•Artificial Intelligence		7-12
•Robotics		7-12
•Impact of Technology on Society		7-12
•Careers in Computer Science		7-12
<i>Dr. Blaise Lifflick</i>	872-3536	
•Ethics in Computer Science		7-12
•Assistive Technology for the Disabled		7-12
•Careers in Computer Science		7-12
•Impact of Technology on Society		7-12
•Human-Computer Interaction		7-12
•Accessibility		7-12
<i>Dr. Nazli Mollah</i>	872-3666	
•Computer Network Efficiency		10-12
•Computer Security		10-12
•E-Government Networks		10-12
•Impact of Technology on Society		10-12
•Careers in Computer Science		10-12
EARTH SCIENCES		
<i>Dr. Richard Clark</i>	872-3930	
•Air Chemistry		7-12
•Meteorology		7-12
•Astronomy		7-12

Faculty/Topics	Phone	Grade Level
<i>Dr. Alex DeCaria</i>	871-4739	
•Lightning		1-12
•Thunderstorms and Tornadoes		1-12
•Hurricanes		1-12
•Careers in Atmospheric Science		9-12
<i>Dr. Lynn Marquez</i>	872-3288	
•Geologic Time		1-12
•Plate Tectonics		1-12
•Volcanoes		7-12
<i>Dr. R. Ramana</i>	871-2086	
•Environmental Geophysics		7-12
•Aquifer and Groundwater Flow		7-12
MATHEMATICS		
<i>Dr. Dorothee Blum</i>	872-3951	
•How to Use Graphs to Solve the Game "Instant Insanity"		7-12
•Four Historical Applications of Graph Theory		7-12
<i>Dr. J. Robert Buchanan</i>	872-3659	
•Cryptography		7-12
NURSING		
<i>Dr. Ruth Davis</i>	871-2183	
•Women's Health Issues		10-12
•Native American Health and Community Issues		10-12
PHYSICS		
<i>Dr. John Dooley</i>	872-3756	
•Foucault Pendulum		10-12
<i>Dr. Natalia Dushkina</i>	872-3424	
•Optical illusions		7-12
•Color Formation		10-12
<i>Dr. Sean P. Hendrick</i>	872-3412	
•Supernova Remnants		10-12
•The Solar System		1-12
•Stars and Galaxies		1-12
•Space Exploration		1-12

Faculty/Topics	Telephone	Grade Level
BIOLOGY		
<i>Dr. Jean Boal</i> •Cephalopods	871-4773	7-12
<i>Dr. Susan DiBartolomeis</i> •Ethical Considerations of Genetic Engineering •Genetics of Cancer	872-3934	10-12 10-12
<i>Dr. Dominique Dagit</i> •Sharks! •The Science of Taxonomy and Systematics •Weird and Wonderful Marine Creatures	872-3420	1-12 1-12 1-12
<i>Dr. John Hoover</i> •Biology of the Brain	871-2268	5-12
<i>Dr. John Hughes</i> •Future Direction of Respiratory Therapy •What is a Respiratory Therapist? •Controlling Asthma •How Does Smoking Affect the Lungs?	291-8457	7-12 7-12 7-12 7-12
<i>Dr. James Mone</i> •Medical Microbiology and Immunology •Bacterial and Viral Diseases •Clinical Laboratory Sciences	872-3417	9-12 9-12 9-12
<i>Dr. Joel Piperberg</i> •Color Vision •Steroid Control of Gene Expression	872-3273	1-12 7-12
<i>Dr. John Wallace</i> •Mosquitoes •Forensic Science •Forensic Entomology •Entomology	872-3418	10-12 10-12 10-12 1-6
<i>Dr. LaVern Whisenton-Davidson</i> •Mosquitoes	872-3076	1-12
<i>Dr. Daniel Yocom</i> •Mycorrhizae (Fungus Roots) •Mushrooms and Fungi	872-3338	7-12 1-6
<i>Dr. David Zegers</i> •Bats	872-3243	1-6

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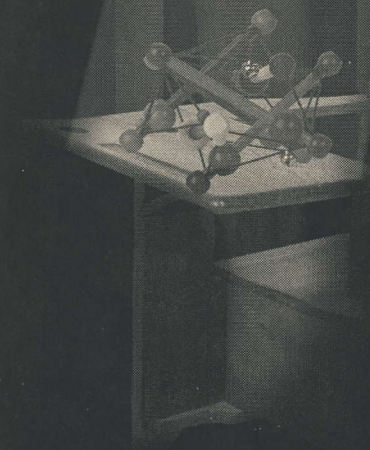
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Presentations for
Elementary & Secondary Students



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