

College of Science and Technology Programs

37th Annual Brossman Foundation and
Ronald E. Frisbie Sr. Science Lectureship

SCIENCE OLYMPIAD

Science Olympiad is an international nonprofit organization devoted to improving the quality of science education, increasing student interest in science and providing recognition for outstanding achievement in science education by both students and teachers. These goals are accomplished through classroom activities, research, training workshops and the encouragement of intramural, district, regional, state and national tournaments. Science Olympiad tournaments are rigorous academic, interscholastic competitions that consist of a series of team events that students prepare for during the year.

These challenging and motivational events are well balanced between the various science disciplines of biology, earth science, chemistry, physics and technology. There is also a balance between events requiring knowledge of science concepts, process skills and science applications.

WOMEN IN MATHEMATICS, SCIENCE AND TECHNOLOGY CONFERENCE

The annual Women in Mathematics, Science and Technology Conference is sponsored by the Glenna Hazeltine Endowment, Phoenix Contact, Inc. and Millersville University. The purpose of the conference is to encourage girls in grades 7 through 12 to consider education and careers in mathematics and the sciences by giving them opportunities to meet with a variety of professional women role models.

SUMMER SCIENCE TRAINING PROGRAM

The annual Summer Science Training Program (SSTP), sponsored by the College of Science and Technology, consists of a series of three-hour workshops covering a wide range of academic disciplines in mathematics, science and technology. Workshops are taught by college faculty and feature intensive student/teacher interaction, advanced-level learning, research and problem-solving experiences for students entering 8th through 12th grade.

SPOTLIGHT ON MATHEMATICS, SCIENCE AND TECHNOLOGY PROGRAM

The Spotlight on Mathematics, Science and Technology program is designed to stimulate interest in mathematics, science and technology among elementary and secondary school students. The program features presentations by University scientists and mathematicians, covering a variety of topics in biology, chemistry, earth sciences, engineering, geography, mathematics, nursing and physics and may include scientific demonstrations, information on careers in science or descriptions of our faculty members' research interests.

This is an ongoing program through the academic year and is voluntarily staffed by faculty members in the College of Science and Technology. There is no charge for the presentations. For more information, please contact the Office of the Dean, College of Science and Technology, at 717-871-4292.

For additional information on College of Science and Technology programs, visit the college's website at www.millersville.edu/cst.



Deciphering Metabolic Reprogramming in Cancer

Dr. Sophia Y. Lunt

Associate Professor at Michigan State University and Cancer Researcher

T H U R S D A Y
10/12/23

— **6:30 p.m.** —

FREE PUBLIC PRESENTATION

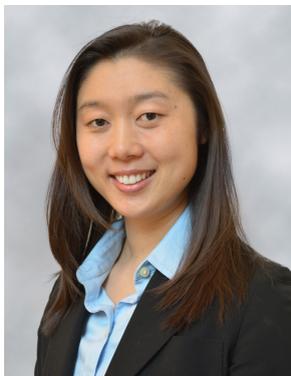
Biemesderfer Concert Hall

Winter Visual & Performing Arts Center

Millersville University

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Millersville University



Dr. Sophia Y. Lunt

Associate Professor at
Michigan State University
and Cancer Researcher

Dr. Sophia Lunt is an associate professor in the Department of Biochemistry and Molecular Biology at Michigan State University. She received her B.S. degree in chemistry from Lebanon Valley College and her Ph.D. from Princeton University.

Her postdoctoral work was completed at the Massachusetts Institute of Technology.

In 2016, Dr. Lunt gave a TED Talk, titled “Starving Cancer Away”, where she explained her intent to cut off cancer cells’ survival potential and pioneer a new way of halting their growth.

Dr. Lunt is the recipient of numerous awards, including the Metabolomics Association of North America Young Investigator Award, the National Science Foundation CAREER Award and the METAvivor Early Career Investigator Award. She has also received several grants from institutions such as the National Institutes of Health National Cancer Institute and the American Association for Cancer Research, where she was awarded the Incyte NextGen Grant for Transformative Cancer Research, and she has publications in top journals such as *Nature*, *Molecular Cell*, and *Cancer Cell*.

In addition to teaching, Dr. Lunt heads the Lunt Lab at Michigan State University, which opened in 2015. She and her team focus on understanding the role of metabolism in supporting cancer proliferation, heterogeneity and metastasis. They combine powerful mass spectrometry, cell biology, genetic models of cancer, and fluorescent agents to investigate alterations in this complex disease. Their goal is to rationally design more effective, personalized therapies for cancer based on metabolic targeting.

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Science Lectureship

Millersville University and the Mr. and Mrs. William F. Brossman Charitable Foundation present the 37th Annual Brossman Foundation and Ronald E. Frisbie Sr. Science Lectureship Program. The program includes a competitive examination for high school sophomore, junior and senior science, mathematics and technology students; laboratory demonstrations; a special afternoon lecture for selected elementary and middle school students; and an evening presentation by Dr. Sophia Lunt.

The University wishes to acknowledge the daughters of Mr. and Mrs. William F. Brossman, the late Mrs. Emily B. Sprecher, Class of 1926, and the late Mrs. Anne B. Sweigart, for their support of this program. We also wish to acknowledge the late Mrs. Bertha Brossman Blair, Class of 1912, the founder of the Brossman Foundation, and the trustee board of the Foundation under the guidance of Ephrata National Bank.

In addition, we wish to acknowledge the late Mr. Ronald E. Frisbie Sr. for his steadfast support of the Science Lectureship. Mr. Frisbie, a longtime executive at the Denver & Ephrata Telephone Company, was awarded the Millersville University President’s Medallion in 2012. He was a member of the Lectureship Program Committee from its inception in 1985 until his passing and served for many years on the Advancement Advisory Board for the College of Science and Technology.

Program Committee

Dr. Lyman Rickard,
Chair

Ms. Abby Alexander

Dr. Angela Cuthbert

Dr. Sam Earman

Mr. Ron Frisbie Jr.

Dr. Tariq Gilani

Dr. Nazli Hardy

Dr. Marc Harris

Ms. Karen Herr

Ms. Lynnea Holler

Dr. Brent Horton

Dr. Alex Johnson

Dr. Baoling Ma

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The Mr. and Mrs. William F. Brossman Charitable Foundation

ADMISSION

Tickets are **free** and may be reserved by contacting:

 millersville.edu/smc/ticket-office  717-871-7600

For more information about this event, please call 717-871-4292.