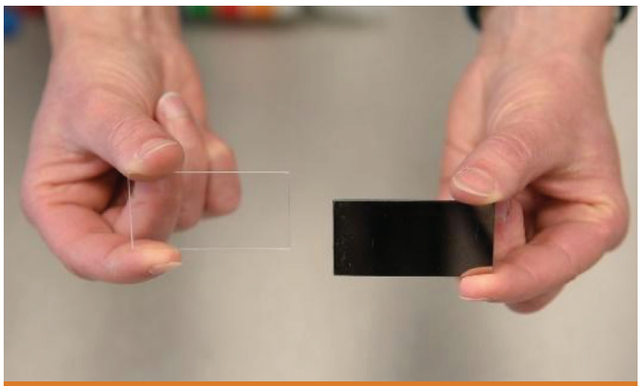
STEM AT PNNL

Pacific Northwest NATIONAL LABORATORY

Thin Films are Cool!



Where do you see thin films in objects you use every day?

How do you think those thin films were developed and placed there?

What is a vacuum and what role does it play in putting thin films on a surface?

STEM Ambassador(s):

Tim Droubay and Tiffany Kaspar

Our scientists use vacuum systems to create new thin film materials and material combinations with unique properties for future computers, energy generation, and batteries. These films could be the everyday items of the future.

Thin films are cool and they are everywhere. Thin films manufactured in vacuum systems are used in hundreds of everyday applications—from computer chips, hard drives, and flat panel displays to potato chip bags, Mylar balloons, and decorative coatings on faucets and door knobs.

For more information, visit:
www.pnnl.gov/stem

or email:
stem.education@pnnl.gov

U.S. DEPARTMENT OF ENERGY BATTELLE

This effort aligns with ensuring DOE and the nation have a sustained pipeline of highly skilled and diverse **science**, **technology**, **engineering**, and **mathematics** (STEM) workers.

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