High School Science Day
Penn State University Park Campus
Saturday, January 18th, 2014

Schedule of Events

Registration
- Osmond Lobby
- 8:00 – 8:45 am
- Please check in at the table in the lobby of Osmond Building.

Panel Session
- 101 Osmond
- 9:00 – 9:50 am
- Current female physics undergraduate and graduate students and faculty will talk about their college experiences, possible career paths, and advice for high school students interested in physics.

Workshops
- 5th floor Davey Lab
- 10:00 – 11:50 am
- Participate in physics experiments and demonstrations in small groups in various locations within Davey Lab. Workshop topics include paper airplane engineering, levitation exploration, how to make a comet, and a 3D Mars tour.

Lunch
- HUB Alumni Hall
- 12:00 – 1:50 pm
- Boxed lunch with the undergraduate participants of the Northeast Conference for Undergraduate Women in Physics. This informal meal is a great opportunity to meet some current physics students and ask them any questions you have about college!

Keynote Speech*
- 100 Thomas Bldg.
- 2:00 – 3:30 pm
- Debra Fischer, Professor of Astronomy at Yale and exoplanet researcher, will discuss her life in science.

Ice Cream Social*
- Osmond Lobby
- 3:30 – 4:00 pm
- Enjoy ice cream from Penn State's Berkey Creamery, and try making nitrogen ice cream

*Parents are welcome to attend the keynote speech and ice cream social.

Debra Fischer is a Professor of Astronomy at Yale University who obtained her bachelor’s degree from the University of Iowa (1975), her master’s degree in Physics from the San Francisco State University (1992) and her Ph. D. in Astrophysics from the University of California, Santa Cruz (1998). Her research is focused on exoplanets. She began her hunt for exoplanets in 1997 by measuring tiny periodic shifts in the radial velocities of other stars. She was the first to discover a multiple planet system in 1999 and contributed to the understanding of planet formation with her analysis that quantified the impact of chemical composition on the formation of planets. In her lab at Yale, Fischer’s team is developing next generation instrument designs that aim to break current records for the detection of Earth analogues. These newly discovered planets will be targets of the search for extraterrestrial life.