# January 2021

## Professional Development and Support for K-12 Educators

* Collaborated with professionals across the country in preparing for the Virtual K-12 Open STEM Conference.
* Consultation with local high school teacher to help with curriculum development.
* Purdue University K-12 Outreach maintains three **Facebook** pages (@PurdueChem, @EAPS.out, @PurdueSOS)  Posts from these pages reached a total of 5,839 people this month.
* Helped maintain the following pages on the College of Science K-12 **Outreach website**.
  + eLearning (<https://www.purdue.edu/science/K12/elearning.html>)
  + Superheroes of Science (<https://www.purdue.edu/science/K12/sos.html>)
  + Virtual Labs (<https://www.purdue.edu/science/K12/labs.html>)
* EAPS K-12 Outreach Pinterest page logged a total of 2,075 impressions.
  + Physics and Astronomy created Twitter and YouTube platforms to broaden the reach across social media.
* **Programs to Develop Scientifically Literate K-12 Students**
  + Developed online virtual sessions for research and coding.
  + Collaborating with The Lilly Nature Center to create Rocks of Indiana educational display.
  + Physics and Astronomy conducted remote Saturday Morning Astro at Purdue with **Searching for Exoplanets**. With DePauw colleague, Professor Avery Archer.
  + Participated with U of Californian Riverside Physics and Astronomy Outreach to present a two-part presentation on the topics of (1) constellations to 5-9 year-olds; and (2) exoplanet research to 10-15 year-olds.
  + Undergrad volunteers recording at home experiments for SMAP students with Balloon Rockets.
  + Delivered Science Express equipment to 12 teachers in central and northern Indiana.
* **Opportunities for Broader Impact**
* Collaboration for an NSF INCLUDES grant with the Global Learning and Observations to Benefit the Environment (GLOBE) Program to support underrepresented student populations.
* Collaborated on submission of a YLACES grant proposal to support a national student research symposium.
* Consulted with Libai Huang for broader impacts on NSF CCI grant proposal.
* Accompanied Aaron Zimmerman in the video recording of drone footage of PRIME Lab, the purpose for which is to record a virtual tour of the facility.
* Outreach organized An Evening of Science with faculty member Maxim Lyutikov, presenting The Physics of Black Holes to a high school in Connecticut, with 50 students and community members attending.
  + Outreach worked with faculty member Dan Milisavljevic to create broader impact that will be used with SMAP.
  + Outreach partnered with CATALYST and Professor Lynn Bryan to collaborate with the Link Observatory and Grand Universe to begin developing outreach initiatives.

**Superheroes of Science** Analytics (<https://www.youtube.com/c/SuperheroesofScience>):

* There were 451 total unique downloads of the Superheroes of Science podcast this month.
* There were 773 total views on the Superheroes of Science YouTube channel this month.
* Twitter (@PurdueSOS) logged a total of 11,900 tweet impressions this month.