



OACTEP BRINGS SOLAR POWER



TO THE JUNIOR-SENIOR HIGH SCHOOL



It is with **great thanks and appreciation** to the [Dockstader Foundation](#) and [Ollo Energy](#) for a project and dream that started 4 years ago is now a reality. Through a grant from the [Dockstader Foundation](#) and in-kind donations from [Ollo Energy](#) the Junior-Senior High School now has solar energy to support the Ecology Lab and career development. The main focus of this Solar Project is to teach our students to be ambassadors of environmental change and to support our environment. Students will have the opportunity to study solar energy as part of a larger overview of renewable energy sources. The long term goals of the Solar Project are:

- To provide hands on, work-based learning tools for students.
- Student exposure to and understanding of the functioning of Solar Energy captured through the use of Photovoltaic cells.
- Provide a monitoring platform for students to learn about output per panel and how the system will work to offset energy on both sunny and cloudy days.
- To enable student awareness of a renewable energy technology and encouragement of student interest in the exploration of additional renewable energy options.

Ollo Energy also donated a Solar Battery to run the Ecology Lab in case of a power outage. This solar run battery would automatically switch on if a power outage occurs. Thus the oxygen machines and heater that keep the fish in the aqua tanks alive would keep running.



Teaching students the environmental benefits of solar energy by using hands-on experiences will impact our youth and possibly open their eyes to an environmental career path. These students are the future in making changes in Chester County.

If you haven't already it's TIME TO PLAN for 2021-2022 School Year

[OACTEP VIRTUAL OPEN HOUSE](#)



CLICK ON THE LINK ABOVE TO FIND LEARN ABOUT OACTEP COURSES

Student and Program Spotlight



Animal and Plant Science - Hydroponic system in full swing as well as the seeds for the high tunnel which will grow the produce to be donated to the food bank.

It is with great appreciation and thanks to the **Land O'Lakes Foundation** that we received a \$500 grant given to the Octorara Career & Technical Education Agriculture Production Program and Octorara FFA Chapter in support of the Answer Plot Community Garden Program. This money will be used to purchase industry level materials and equipment which will help provide high school students with hands-on learning experiences related to agriculture while addressing the need for hunger relief in their local community.



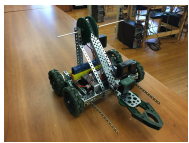
Business Academy - The Business Academy, year 3 students, participated in the Virtual Enterprise (VE) New York Metro Area Virtual Trade Show. They were able to promote their simulation business, Supplier X- an office supply subscription service, interact with other VE firms, and earn over \$10,000 in sales!

Child Care - The OACTEP Child Care Education started Room-2-Bloom preschool!

Culinary Arts - After months of practice, and a remarkable demonstration of skills, Culinary Arts students, Erin Haun, Christopher Jobe, and Joshua Captis submitted film to the first entry into the Prostart Culinary Competition.



Engineering - Students in the CTE Engineering program are currently learning about robotics. From assembly to programming students are learning how to incorporate robotics into everyday life. The project began with students describing a scenario that they would use the robot for, while using the classroom for the stand in obstacle course. The robot they would use, could travel, use a gripper, and lift objects up. The scenarios ranged from the mundane to the extraordinary, such as using the robots for everyday deliveries to a scenario describing a scientific mission on mars.

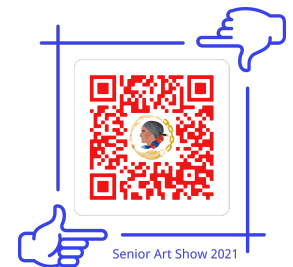


The pilot was the student controlling the robot remotely from outside the classroom using a camera with wireless technology that could link up to their chromebooks. Using only the streaming video and the plotted course on the floor plan students had five minutes to get to their target, grab their product and exit the room.

Thank you to **Steve Burn** from [SECCRA](#) for donating a HP Designjet 4000 Printer. Not only will this help our Engineering students print out blueprints, it will also help our Graphic Design and Illustration students print out large pieces of artwork.

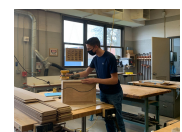


Graphic Design and Illustration - Senior Art Show coming in MAY! We are also going to be announcing a "call for photos" - where the students will retouch any family photos that are in need of some TLC. Use the QR code to view the show.



Mechanical Systems Technology - The Mechanical System Technology Program is working on building a log splitter from scratch. Rebuilding a ford tractor engine and working on welding projects.

Woodworking - The Woodworking Technology Program is working on the Rails to Trails bench project, using the laser engraver to create props for the upcoming play, and Scott Davis (former student) is making a time capsule for his senior class.



The Octorara Area School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.