The "FAB Lab" at Highland

Highland Regional High School unveils it's "Fab Lab". The remodeled auto shop is now a high tech fabrication lab. This Robotics Engineering Lab is outfitted with state of the art equipment and will be the home of the new Robotics Engineering Course starting in September 2015. The room will also be used for the Engineering and Computer Aided Design programs.

The project was scheduled to start in February 2014 and be completed by July 2014, however, permits and scheduling issues prevented the construction to start until May. Highland received the Certificate of Occupancy in late October and classes started in the room in early November 2014. Mr. Carvalho, Highland’s technology education teacher said, “The room was worth the wait. This new space is as state of the art as you can get. Students at Highland have just about the best classroom in all of South Jersey, and the facilities will allow for us to work on projects that are just like what real world engineers and designers do. It doesn’t hurt that the equipment allows us to work on projects that are a lot of fun!”

The room was designed with Highland’s history of being a leader in vocational education in mind. Highland had one of the best machining, printing, automotive and drafting programs in the State of New Jersey in the 70’s and 80’s. All of those programs have gone to the county technical schools and have been replaced with technology education courses. The new lab has a new clean industrial look with a number of high tech machines which will be used by students to create solutions to engineering problems with a robotics theme. Superintendent, Dr. Brian Repici, a driving force behind this endeavor said, "We are hoping the new technology and curricula sparks further innovation and creativity in our students."

Our Stratasys 3D printer is a tool where students can design a part in Autodesk’s Inventor and the 3D printer will print a solid model using ABS plastic. The printer uses two types of plastic; one is water soluble the other is not. The water soluble material is used as filler and after it is dissolved the part is useable. One of the first parts created was a whistle with the little ball built inside as the part was constructed.

We have a Saw Stop cabinet saw that uses a computer to detect if someone’s fingers are too close to the spinning blade. Safety is our number one concern in all of our hands-on programs,” said District Supervisor Glenn Smith. "Wearing safety glasses and proper use of tools and equipment are life-long skills that our technology teachers drill into the students every day."

Students also have access to the computer numerical control (CNC) router which converts the students CAD drawing into numerical code that the EZ router can read and cutout parts with little human involvement. The router can cut a half sheet of plywood into multiple pieces, once programmed, with the touch of a button.

Students will be using wireless workstations along with the latest version of Autodesk’s AutoCAD and MasterCAM to create their solutions to real world engineering problems.

The new room along with our new Robotics Engineering curriculum was designed for students who have an interest in engineering and are good in mathematics. Our goal is to give students a solid understanding of what it is engineers do. Students can continue their education at a four year school, at Camden County College or enter the work force with a high tech career in mind.
October Spotlight Winners
Spotlight is our student and faculty of the month program. All nominations are received from faculty members and students. One student per grade and one faculty member is selected. The winners, their parents, and the nominator are invited to a breakfast on the 4th Friday of the month.

Grade 9  Alexis Stango
Grade 10 Curry Smith
Grade 11 William Heim
Grade 12 Alyssa Cruz
Staffulty Katrina Fowler

Vice Principal’s Choice Awards
9th  Brielle Small
10th  Isaac Gorham
11th  Nicholas Scharlach
12th  Deonte Maddred

Gloucester Township Hispanic Heritage Month Honorees
Congratulations to Crystal Lantigua and Vanessa Aparicio-Herrera, who were honored at the Gloucester Township Council Meeting on Wednesday, October 15th. Crystal and Vanessa were recognized for being exemplary citizens who have demonstrated significant contributions in the area of community service, personal or professional achievements, or general good deeds that have impacted favorably on the citizens of Gloucester Township.

National Achievement Scholarship Program
Congratulations to Jordan B. Young, who is among 3100 Outstanding Participants in the National Achievement Scholarship Program. These students are then referred to U.S. colleges and universities. Jordan scored in the top 3 percent of more than 160,000 black Americans who requested consideration in the 2015 Preliminary SAT/National Merit Scholarship Qualifying Test.

HOBY
Congratulations to Brynn Ceschan on being selected to represent Highland Regional High School at the 2015 HOBY conference at Monmouth University. Elizabeth Schmidt was selected as the alternate. HOBY’s mission is to inspire and develop our global community of youth and volunteers to a life dedicated to leadership, service and innovation.

Athletic Hall of Fame
Highland High School was opened September of 1967. 47 years later, we are seeking nominations of former great athletes, coaches, teams, or contributors to Highland athletics. If you know someone worthy of this recognition, please submit an application, which can be found on our website (www.bhprsd.org) before December 31, 2014.
**ATHLETICS**

Monday, Oct. 13th Senior, Kareem Ali was presented his jersey during a ceremony hosted by the U.S. Army All American Bowl representatives. Ali was selected to represent the East team in this honorable game, on January 3, 2015 at the Alamodome in San Antonio, TX. Tune in to NBC at 1:00pm ET to watch!

Also in Football news, Creek Football remains undefeated! Coming off of their bye week, TC heads to Clearview on October 24th to begin wrapping up the second half of the regular season.

Girls Soccer wins the Coaches Tournament at Williamstown going 5-4 in penalty kicks!

**CHALLENGE DAY**

100 students participated our Challenge Day program along with 32 adults. As students entered the gym they were greeted with music, high fives, and excited dancing faculty members. The first couple hours involved games and activities that helped introduce everyone to each other. Students were able to act like kids and not worry about judgment from others. Facilitators began breaking down barriers when they shared their personal stories and their struggles. They described the “Man Box” and the “Female Flower” discussing the tough gender stereotypes students may endure. We then moved into small groups where we met our “families”. Each member had 2 minutes to describe “If You Really Knew Me...”. This activity was powerful and promoted a safe place to be free with your emotions and provide a listening ear. Those 2 minutes made a big difference in all of our lives. The next powerful activity was “Cross The Line”. The statements began as basic, and intensified as the activity progressed, trust was developed amongst the group. This activity was the most emotional and eye opening part of the day. Participants were able to see they share similar struggles with other people. The day activity. Students had the opportunity to group about how they are going to “Be kinder, give and accept apologies, be most importantly, spread these part of this Challenge Day.

**HOMECOMING**

Spirit week was Monday, October 27th with mismatch day, followed by Twin day, Color wars, Sweatpants and t-shirt Day and ended with TC Spirit Day on October 31st. Our Homecoming Football Game was Monday, October 31st. Our 2014 Homecoming Court Winners were as follows: Sonthavy Kem, Kimberly Garro, Jun King, Taylor Macaro, Bridget Henderson, Rachel Meier, Alexa Miranda, Courtney McGrath, Alan Butler, Kennedy Harris, Jerryl McCoy, Dominic Munson, Josh Mott, Zachary Warren, Derek Cooper and Adam Hatch. Our King and Queen were crowned during the Homecoming Dance on November 1st. Our theme this year was “Falling into Wonderland” and it was magical!
CHALLENGE DAY
New friendships were forged. Old friendships were mended. Eyes were opened to the different life experiences each student brings with them to TRHS. Challenge Day offered a unique opportunity for those who participated; to share and be heard, with the idea that those exposed will take their new perspective and challenge their classmates to make Triton an even better place to learn. Students will continue challenging stereotypes and negative actions they encounter every day.

BLOOD DRIVE
On October 20th over 100 Triton Mustangs volunteered to donate blood to the bi-annual drive. During this drive, the American Red Cross collected 70 productive units which will help 210 patients in our community. National Honor Society students were on hand to check-in donors, assist them in the recovery area, and hold the donors hands during the collection stage. Mustang generosity abounds!

HALL OF FAME INDUCTION
Triton honored and welcomed 10 new inductees to the Triton Hall of Fame: Diane Anderson, James Corbett, Michael Corbett, Gregory Filipek, Colleen Fossett, Nancy Holmes, Jack O’Halloran, Tom Poltash, Colleen Windt and Triton’s current Principal, Melissa Sheppard. New inductees are honored every four years. Nominations are available on-line through the alumni section of the Triton website.

DINNER AND A SHOW
The fall production has returned to the stage this year with “Murder in the Heir.” The students spent countless hours rehearsing and memorizing many lines to ensure they hit the mark on each punchline. Even the audience was involved in deciding the guilty party. The Triton Players opened the night by inviting the community’s senior citizens to a free dinner to enhance their night out on the town in Runnemede. The drama continues with One Act Plays on December 5th and the Spring Musical in March.

ALL AMERICAN MUSTANG
Mustang, Paige Bergman has been nationally recognized for her skills on the high school soccer field. Paige will join only 41 other female high school senior soccer players from across the nation in Raleigh, NC on December 13th to play in the High School All-American Soccer Game. Triton wishes Paige good luck, and knows she will represent Mustang Pride on the field.

“BELIEVE IN U” HONORS SPOTLIGHT MUSTANGS

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