

The Arnold Sentinel

“Serving the South Loup River Valley”

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3-D Printer In Use at Arnold Schools

Arnold Community Foundation Fund Donates Full Cost

Around a year ago, an area farmer contacted Mr. Mohr, Arnold Public School's shop teacher. This farmer was wanting to design and make a certain specialized part for his planter. This set in motion the motivation to pursue a piece of equipment that had caught the eye of Mr. and Mrs. Mohr a few years earlier. They thought that it would be very beneficial to purchase, as an addition to the already successful School House Graphics program.

Mr. and Mrs. Mohr did extensive research, comparing and asking lots of questions before they came up with what they were confident was the right choice for the school.

The decision was made to purchase a 3-D printer with the funds from the School House Graphics account; however, the Arnold Community Foundation wanted to help with the purchase, and they generously chose to donate \$13,500.00 to cover the full cost.

Mr. Mohr expressed his appreciation for this donation, saying, "This will free up money to put toward other projects."

The 3-D printer is compatible with Cobalt, the computer drafting program already used for the CNC.

"This is Logan Coleman's baby," said Mr. Mohr. "Logan has worked on this from the bottom up, he has done all of the ground work to get it up and running. He has really taken ownership in this project."

This included setting up the program, setting up the machine, learning all of the functions and learning how to maintain the equipment.

Critical thinking and problem solving are key to using and understanding the 3-D printer successfully.

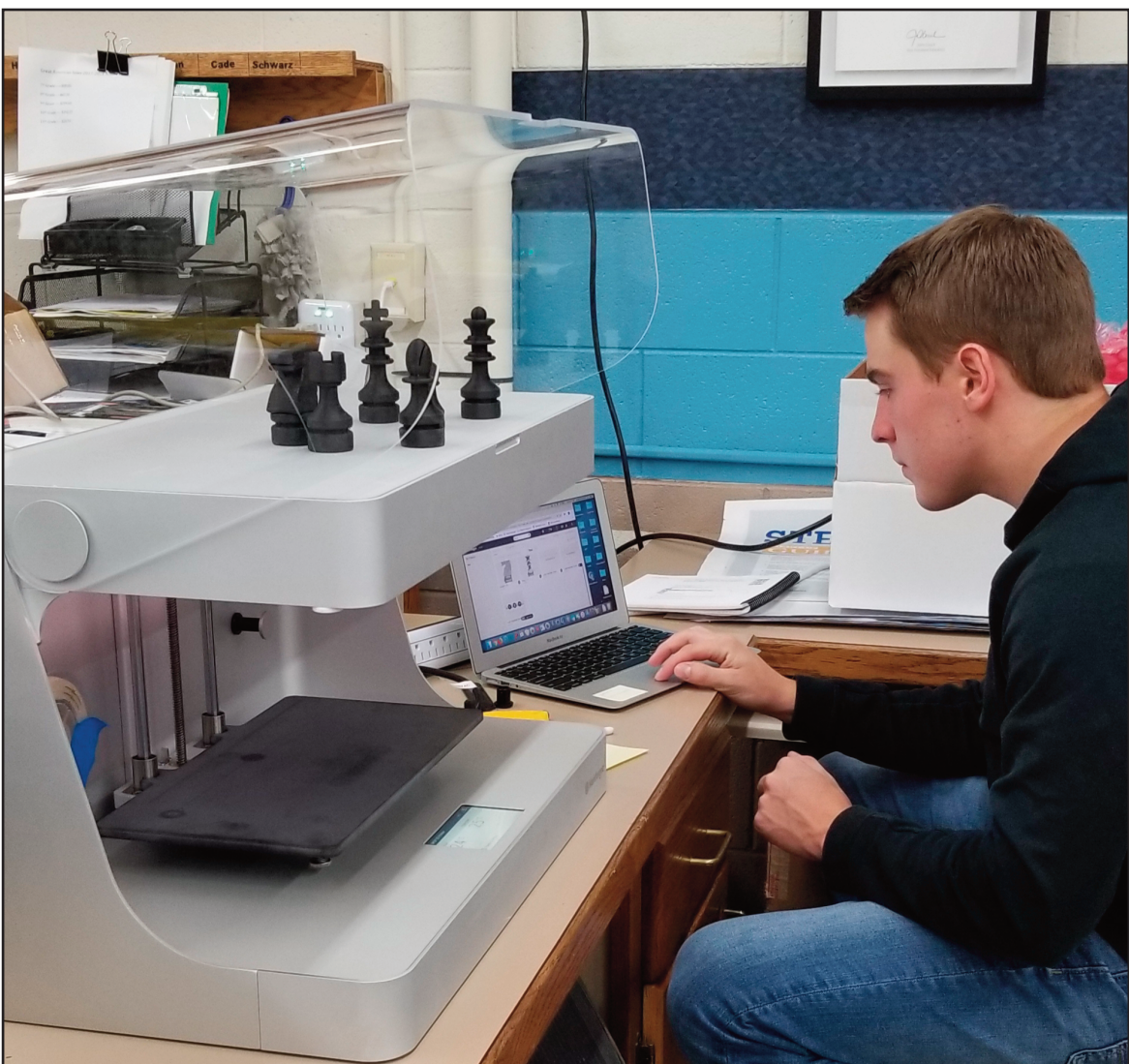
To use the printer, the operator will create a 3-D drawing of the object they wish to make. The drawing is then entered into another program that chops it into layers that the 3-D printer can understand. Then they will choose a material to use, such as chopped carbon, nylon, carbon fiber, Kevlar or fiberglass. After choosing a material, it is then orientated to the print board. If everything is correct, the object is ready to print.

The goal for the 3-D printer is to be used by every grade, so each student can experience and learn this great piece of technology.

Mr. Neth's 5th grade class has been working on designing and creating a chess set. They started with making a pawn. The first one didn't turn out so well. When Mr. Neth asked Crew Witthuhn about it, Crew responded, "Well, the bottom was pretty good." So, they started back with adjusting their design and the next time resulted in success.

This 3-D printer is not only used to make fun things like chess pieces, but because of the quality of the material that can be printed, it can also be used to create strong, structural, specialized parts. It eliminates the need for machine parts and pieces. It is only capable of short run production, however.

In a story written for the monthly school newsletter, Jadeyn Bubak said the students are already discussing several different directions they could



Sentinel photo

Logan Coleman, a senior at Arnold Public Schools, works with the school's new 3-D printer. Logan was instrumental from the ground up in getting the printer up and running. Pictured sitting on top of the printer are chess pieces made by Mr. Neth's 5th grade class - just one of the amazing things that can be created using the printer.

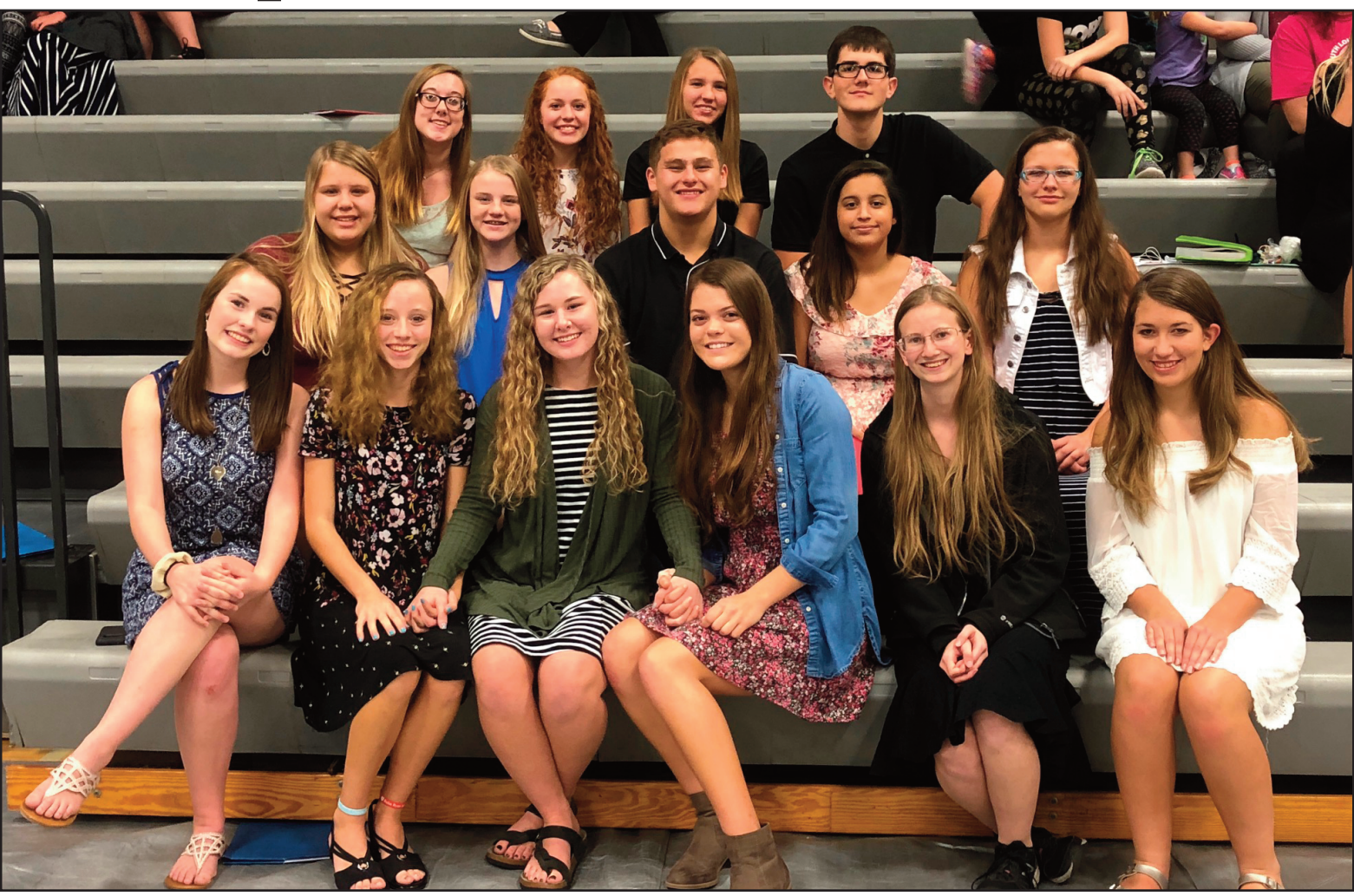
go with the 3-D printer. One big possibility that is already in the works is building a replica model of the SORC (Sandhills Open Road Challenge) race-track. Another possibility is de-

veloping and producing South Loup Bobcat keychains.

"Arnold Public Schools is always working to provide their students with the best equipment and opportunities to de-

velop their technological skills and encourage creativity in the study of complex machines," said Jadeyn.

Arnold H.S. Chorus Members Participate in Conference Clinic



Courtesy photo

Arnold students participating in the MNAC choral clinic were: front row, l-r: Kenna Rogers, Kacee Dvorak, Bailey Schwarz, Jadeyn Bubak, Katy Brown, Lorraine Wonch; middle row: Taylor Doggett, Reagan Cool, Dylan Nelson, Layla Rivera, Cecilia Wonch; top row: Zoey Borah, Kylee Lehmkuhler, Stella Lewis, Jarret Buchholz.

The annual choral clinic for the Mid-Nebraska Activities Conference was held in October at Sargent High School. The schools participating in the event were: Arnold, Anselmo-Merna, Ansley, Brady, Callaway, Litchfield, Sargent and Taylor.

Clinician for the day was Josh Hughes, music director at Amherst Public Schools. This is the second time Mr. Hughes has been the clinician for this

event.

The students from each school prepare seven songs chosen by the MNAC teachers, then come together to form a massed choir, spending the day rehearsing with a director chosen by the MNAC teachers. The day ends with a performance of the pieces rehearsed. The concert is open to the public at no charge.

The pieces performed were:

"Of Thee I Sing, America!" by Albrecht and Althouse.

"Oye! (Listen)" by Papoulis.

"The Longest Time" arranged by Shaw.

"Gather by the River to Pray" arranged by Choplin.

"Dream a Little Dream of Me" arranged by Althouse (women's chorus).

"Take Me Home, Country Roads" by Denver, Danoff and Nivert (men's chorus).

"Africa" arranged by Snyder.

Arnold students participating in the chorus event were: Freshmen: Reagan Cool, Stella Lewis, Layla Rivera, Katy Brown; Sophomores: Jadeyn Bubak, Taylor Doggett, Kacee Dvorak, Kylee Lehmkuhler, Bailey Schwarz, Cecilia Wonch; Juniors: Kenna Rogers, Lorraine Wonch, Dylan Nelson; and Seniors: Zoey Borah and Jarret Buchholz.

Veterans Day Program Nov. 12

A Veterans Day program will be held in the school's auditorium on Monday, November 12, starting at 10:00 a.m. The school, Legion and VFW members would like to invite parents, grandparents, and patrons of the district to attend the program, which will begin with the Posting of the Colors and will include music, poems and essays by students.

This year's speaker will be Douglas L. Boldt, who is a 42-year continuous member of the Bryson-Booker Post 59 in Callaway. His passion is caring for veterans and seeing that they receive the benefits they had earned while serving their country in the military.

Doug has held many offices at the post, country, district and state level, and at the national level, as well. He also speaks in classrooms as part of his project, Operation School Talk.

Annual ACFF Fundraiser Set for Nov. 17

Tickets are now on sale for the Arnold Community Foundation fundraiser. The event, planned for Saturday, November 17 at the community center, raises funds to support local entities each year, and to grow our "community" savings account. The evening starts with a social hour from 5:30 to 7:00 p.m., followed by a meal, presentation of philanthropy awards and an auction.

Tickets can be purchased at 1st State Insurance in Arnold. More detailed information can be found inside this issue.



Speaker Doug Boldt