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School House Graphic Products Expands Business

New Printer Brings Endless Possibilities

By Kendra Veirs

On October 8, 2009, Mr. and Mrs. Mohr, along with School House Graphic Products (SHGP) students, anxiously awaited the arrival of a new addition to their equipment at APS.

Graphic Systems out of Chesterfield, Missouri, a suburb of St. Louis, journeyed the 1,262 miles and delivered the Mimiki JV3-75 printer. The representatives then spent three days at APS, setting up and training the students.

"The printer basically prints on any type of surface," Julie Mohr said. "This includes vinyl - the primary media, banners, paper, canvas and transparent-perforated film for windows."

The high resolution printer can make very detailed pictures of every shape and size. From as small as a one-inch circle to as large as 29 inches wide and as long as a person can imagine, the printer sprays small dots with the primary four colors of cyan, magenta, yellow and black to make very detailed, vibrant pictures.

"This printer really expands the business," Mohr stated. "Basically anything a person can imagine can be done now. The printer accepts all file formats and pictures right off of a camera."

The printer was made possible due to a grant. The grant paid for all the training and along with the training, the company issued the printer.

And the possibilities are endless...

The students' first project was creating 200 stickers. "In Memory of Tiff Varney," he said to be presented at the Rose Parade in Pasadena, California.

In their second project, freshman Dillon Olson designed personalized 1 1/2 ft. by 1 1/2 ft. SORC 10th anniversary decals. Ordered online on



KENDRA VEIRS PHOTO

SHGP students, (l-r) Alex Weinman, Whitney Weinman, Brady Weinman, Charlie Blowers and Dillon Olson, display detailed, colorful pictures printed on the new Mimiki JV3-75 printer, the student-run business recently acquired in part from a grant. The students are now equipped to produce almost anything a person can imagine, from automobile wraps to creative wallpaper for home decorating to outdoor signs.

SHGP's Web site, each driver has the option of having a name and car number on the decal, along with their personal race car instead of the generic corvette usually used.

"The drivers have been asking for this for a very long time," Mohr said.

Using Adobe Illustrator, the students can design laptop and cell phone wraps, of any design imaginable. Using photographs or a person's artistic ability, the detailed wraps both protect and personalize many different types of equipment.

Recently, Clay Mohr traveled to Lexington, Kentucky, where he was trained on vehicle wrapping, by Mutoh's Hands On School of Wrap.

SHGP and their equipment is capable of doing these detailed vehicle wraps and have one vehicle already on the list.

The vehicle will be wrapped in a "camo" pattern. The 29-inch-wide sections will be printed and then applied in sections, to have a solid look.

The wrap can also be applied to make four-wheelers and snowmobiles have a unique look - with SHGP already looking at a "special camo" wrap for a snowmobile.

Since the printer can print on canvas, any photo can be used to make a large painting for the inside of a house.

A photo or design can even be made into a wall-sized mural for the inside of a house. The design would be cut into 29-inch-wide sections and then put together on the wall for a solid print.

"This printer opens up a lot of doors," Mohr said. "We can make custom wallpaper with a specific design or for a baby's nursery, for example."

Printing vs. Vinyl

Mohr said printing prices are similar to vinyl and won't increase a lot. If a person has used the vinyl, they will know the price-range to expect.

"The ink cost is higher, but there is less labor involved," Mohr stated.

With many sign companies opting for the printing ver-

sion, the printed, laminated, UV coated decals will last up to 10 years outside. The vinyl cut-out type will last up to 15 years.

The students are eager for more jobs with the new printer, as it is not good for the machine to sit idle. The printer does better if it is kept running.

"Every hour, it turns on and pumps ink, so it doesn't get clogged," Olson said.

Watch future issues of *The Sentinel* for the date of an upcoming open house, so residents can see examples of all the endless possibilities the printer and SHGP have to offer.

Pesticide Training to be Held in Custer County

Private pesticide training will be held for farmers and ranchers who need to renew their certified private pesticide applicator's license or anyone who wants to become certified. The dates, locations and times are as follows:

- January 19 - Community Building in Sargent, 1:00 p.m.
- January 21 - Vet's Building in Arnold, 1:00 p.m.
- January 26 - Community Building in Ansley, 7:00 p.m.
- February 16 - 4-H Building, Broken Bow, 1:00 p.m.

In order to become certified,

producers pay a \$50.00 recertification fee for study materials and training and will then be billed from the Nebraska Department of Agriculture an additional \$25.00. If you cannot attend any of these training, a self-study manual costing \$60.00 is available at the Custer County Extension Office. You must be certified if you intend to purchase or use any restricted use pesticide.

Call the extension office at 308-872-6851 for more information.

Wind Study Results Considered a Success for Possible Wind Farm in Arnold School District No. 89

By Kendra Veirs

Approximately 50 landowners and community members met in the community center on Tuesday, January 5, to hear the results of the Regional Economic Impact Analysis and Wind Resource Map, completed by Wind Consulting and Contracting, Inc. (WECC).

The meeting was opened with AEDC member, Brian Gebhardt stating that the study did exactly what it was supposed to and more.

"What turned out with the study was a success," he said. "It is not going to happen overnight, but we now have valuable information."

Using LB 840 funds (1% local sales & use tax), the extensive study looked at short term and long term costs of production, operation and deconstruction, income, wind potential, transmission capabilities and computer generated information, for a potential wind farm in Arnold School District #89.

Although Mike Steinke, Director of Business Development for WECC, was unable to be in Arnold, he presented the results using technology, known as skyping, from his office in Oklahoma.

School District #89 was divided into six regions - one in Logan County, two different regions north of Arnold in Custer County, one east of Arnold in Custer County, one south of Arnold in Custer County, and one in Lincoln County.

Each region was broken down into 50M squares and color-coded into different classes of wind potential, mea-

sured at the 50M height level - the level the turbine would operate at. This was done by WECC using purchased wind data, public data and WindPro - one of the most advanced wind analysis software available.

Wind speeds were categorized into classes with Class 3 at 15.0-15.7 mph, Class 4 at 15.7-16.9 mph, Class 5 at 16.9-17.9 mph and Class 6 at 17.9 - 20.0 mph.

Each region showed great potential with the colored maps showing broad areas of dark blue (Class 3), green (Class 4) and yellow (Class 5) squares. Of course, the computer generated data shows good wind on ridges, some of which would not be feasible for actual turbine placement; however, some areas offer gentle rolling pasture hills, shaded in green with Class 4 winds, ideal for placement.

"There are a lot of areas to choose from," Steinke said. "Perhaps Lincoln County has the best possibility because of an accessible transmission line and good clustering. There is a wide selection of solid green areas. Good clustering can decrease the overall cost of putting a wind farm in."

All six regions showed a 44 percent capacity, after a 10 percent margin of error was figured in. That means the farm would be at capacity, producing power, for 44 percent of the time, which is really good according to Steinke. Anywhere between 38 percent and 55 percent is good.

The regions also showed a 97

percent park efficiency, which is an excellent efficiency number, with anything under 92 thrown out. The park efficiency takes into account costs, output, and so forth.

"Bottom line, for us, these were very excellent numbers," he said. "This is a great district for a wind farm."

WECC concluded with the study that perhaps a 40 MW facility would be the best with Nebraska regulations. A 100 MW farm was originally looked at. With a small farm established, there would be the possibility of expansion.

Also, if a small farm is installed, Arnold, can say, "Look at what we have," when the new Dakota transmission line is installed from South Dakota into Nebraska, Steinke said.

"A small 40 MW farm is relatively easy to get (investors) on board," Steinke commented.

What's Next

With the consent from the AEDC (because AEDC actually owns the study), WECC released the results to investors.

"There are a number of companies who are interested," Steinke said. "We're interested."

What Steinke is referring to

Did You Know?

• Each wind turbine could generate \$7,000.00 per year for Arnold School District.

• The cost of a 40 MW wind farm is 80 to 100 million dollars.

installed. The best case scenario is that in one and a half to two years, turbine construction could begin.

"That is quick in my industry," Steinke commented. "But we plan to move forward exponentially in the next few weeks."

The cost of a 40MW wind farm is approximately 80 to 100 million dollars.

More Potential

WECC has worked with several schools and helped apply and receive grants for the purchase cost of a single turbine, which is placed at an appropriate location and the school generates money from it.

In one case, an Oklahoma school generated enough money with one turbine to install an Olympic-sized pool. Other times, enough is generated per year for the salary of one or more teachers.

Farm/ranches and/or businesses are also capable of installing personal 50 kW wind turbines, often with a 50 percent tax credit in the form of a grant.

Now that the wind study has been completed, the AEDC can help a person dial down to one of these smaller projects.

Please contact any AEDC member or Kristi Dvorak, economic developer, with any questions, comments, or concerns on the bigger project or if you would like to explore a smaller project.

Babies of '09 Reminder...

The deadline to turn in pictures for the "Babies of '09" feature is January 18.