

"Just knowing I can earn a year of college credit while in school puts me one step ahead of the others."

- Chabelle "Belle" Lawler, Health Occupations student at Bellmont



Good News Digest

Adams • Blackford • Huntington • Jay • Wells Counties, Indiana Fall 2012

Project Lead the Way, Health Occupations classes combine Lutheran lifeline program spends day at Bellmont

t is not everyday a helicopter zooms in, hovers over a high school's softball diamond. and lands with a crew of medical professionals to provide a realistic experience for health care, engineering and criminal justice students.

But in early September, Lutheran Hospital paramedics and nurses gave of their time to spend the day providing these experiences for Bellmont High School.

Bellmont student Jacob Bergman, senior, plans to be a physician's assistant in the future and was most surprised at how complete the transport of critical needs was in the ambulance

Others were interested in the lifeline helicopter, learning the restrictions on flight during weather with ice, and the size of the motor in this airborne vehicle used for critical patient transport.

"I want to become a mechanical engineer, and I liked looking at all of the technology - like the gauges and lifesaving tools in the helicopter," senior Justin Villagonez said.

Altogether, roughly 200 students took part in the educational experience from career and tech ed programs.

"The health occupation students got to try to put chest tubes in a mannequin, as well as putting an IV into a bone," Gresla said.

"In the presentation they talked about various careers and answered a ton of questions."

According to curriculum coordinator Jeannie Smith, the Health Careers program has been in existence for over 20 years at Bellmont. Taught by Gresla, the students will participate in actual



ON THE FLY Paramedic Bob Scher explains the lifeline process for the critically ill to Janelle Gresla's health occupations classes. Later students had the opportunity to speak with medical nurses and participate in hands-on simulations. Likewise, members of Josh Salway's Project Lead the Way students gained information and experiences specific to engineering by taking part in this day-long event. Krista Quinones is the Director of Lutheran Air, Critical Care Ground Transport and STAT Transfer Center, and a former student from Bellmont.



Senior Alysha Helmrich feels that a lot of girls don't understand what's going on in the engineering field. "You need to take as much math as possible," Helmrich says. "I like to find a problem and solve it." Helmrich plans to become a chemical engineer at IPFW.



"I was really interested to see the size of the helicopter's engine. It was two feet across, like what was used in the military. I'm interested in engineering and plan to continue my studies someday at IPFW," said sophomore Drake Reidenback, PLTW student.

work experiences at Adams Memorial Hospital and at local nursing homes. The CTE program provides opportunities for students to earn up to 17 college credits from Ivy Tech.

Bellmont became a certified "Project Lead the Way" school in 2010. Taught by Joshua Salway and Kyle Eichenaur, the PLTW courses are also eligible for college credits through Ivy Tech Dual Credit Program.

The opportunity to gain a full year of college while still in high school is not taken for granted by students like Chabelle Lawler, who first saw a commercial about Bellmont's Health Occupations program on Ft. Wayne television, and now drives 45 minutes one way just to attend Bellmont.

"Just knowing I can earn a year of college credit while in high school puts me one step ahead of the others," Lawler said.

DUAL CREDIT OPPORTUNITIES ENGINEERING

Intro to Engineering Design 3 credits - DESN 102 **Principles of Engineering** 3 credits - ADMF 115

Civil Architecture + Englineering 3 credit - DESN 105 **Digital Electronics**

3 credits - ADMF 113

HEALTH CAREERS

Intro to Health Careers, 3 cr.edits Anatomy & Physiology 101, 3 credits Anatomy & Physiology 102, 3 credits Medical Terminology, 3 credits CNA Training, 5 credits

Additionally, students may take a test and earn their CNA license as part of the course.

"In contrast to their reputation as a lazy, entitled generation -- U.S. Millennials are actively engaged in consuming and influencing, and their habits are distinct from earlier generations in several important ways."

- TECHNIQUES: CONNECTING EDUCATION & CAREERS, OCTOBER 2012

'Millennials': Need for classrooms that makes a difference for students

oday's students are more receptive to marketing and more likely to choose products whose purchase supports a cause," begins Deb Moore in her Techniques magazine article, "Creating a Classroom that Makes a Difference."

With that knowledge, teachers can and should tap into that energy and commitment to a cause to create classrooms that make a difference -- for themselves, for their students and for their community.

With Project-Based Learning (PBL) "...projects are carefully planned, managed and assessessed to help students learn key academic content, practice 21st-century skills (such as collaboration, communication and critical thinking), and create high-quality authentic products and presentations."

By employing PBL in the classroom, "students gain a deeper understanding of the concepts and standards at the heart of a project...Projects can allow students to address community issues, explore careers,

interact with adult mentors, use technology and present their work to audiences beyond the classroom. PBL can motivate students who might otherwise find school boring or meaningless," the author says.

In a nutshell, PBL is the perfect vehicle for creating classrooms that make a difference. It allows teachers a meaningful and rigorous format in which to teach academic and state standards.

PBL also enables students to learn "key academic content" much more thoroughly through hands-on experiences, and these experiences can make an incredible difference for a community and takes student learning to a new dimension.

Swanson & Cosgrave share a host of implementaion tools like worksheets on their site www.swansonandcosgravae.com/resources.php to help the teacher organize team projects when implementing PBL, as well as rubrics for how to access and hold accountability for each person's work.

"Teachers provide the time, tools and training students need to succeed in projects. "Project Scaffolding" refers to the various types of support that teachers provide for students during the risky business of project work."



Senior Heath Bumgarner, second year welding student, stands beside his creation, Reggie, for a Ft. Wayne pre-school.

Focus on... Arts & Metals

THEY CALL HIM 'REGGIE'

The official installation of "Reggie," was born out of a combination of artistic efforts and manufacturing skills by Norwell High School senior Heath Bumgarner, as part of his Advanced Welding class at Anthis Career Center.

The steel art structure was mounted outside the front walkway and entrance to the Whitney Young Early Childhood Center in Ft. Wayne.

Bumgarner, a second-year welding student, created his project to look like the official pre-school logo that was printed on T-shirts, and then used the plasma cutter to cut out the steel shapes and weld them together. He was

initially approached by the school's visual arts teacher Janette Sanders, who wanted to know if he could create something out of scrap metal like she had seen at a Colorado conference.

"I can say the school personnel were very very pleased with the results," Anthis assistant principal Bob Roebuck said.

The entirepre-school project was overseen by Construction Trades teacher Chris Roberts, whose own students were pouring concrete paths to the outside tables at the pre-school.

In his second year at Anthis, Bumgarner has already earned three hours of college credit to Ivy Tech at the end of his junior year, along with his AWS industry certification. He plans to continue his education next year at Ohio Tech in Cleveland in their one year welding course and then work in the nuclear field.

Under the guidance of Anthis Career Center welding teacher Tony Trounter, the students in Welding II classes work on community projects as part of their coursework each year.

"Last year the advanced welding students created some old-fashioned-looking rod iron trash cans for the city of Ft. Wayne," assistant principal Roebuck said.

According to Norwell guidance counselor John Horn, "My philosophy is that kids today must have some kind of education past high school to compete in today's labor market."

Horn works closely with the administrators and teachers from the Anthis Career Center and Area 18 schools to help provide students the opportunity to find that training and passion in CTE courses like welding when it's not offered in the high school building.

Blackford High School Newest member of Area 18 CTE 'family' offers law enforcement

For the past two years, Blackford HS has worked to expand CTE programming at their school, bringing increased opportunity to train their students for High-Wage, High-Demand jobs.

Area 18 currently serves nine high schools: Jay County, Norwell, Bluffton, Southern Wells, Belmont, Adams Central, South Adams, Huntington North and Blackford.

"In joining the consortium, Blackford hopes to bring high quality CTE to more students as they develop courses in their own building," CTE director Kevin Keller said

This fall Health Science, Culinary Arts, and Graphic Layout and Design programs were added to the already existing Project Lead the Way and Law Enforcement programs.

Lisa Smith is the principal of Blackford High School and explains that college credit and industry certifications are a priority for all CTE programming at Blackford HS.



Southern Wells HS

PLAY GUITAR... but first, students in Doug Hunt's Manufacturing classes at Southern Wells must build their own guitars from kits purchased through the money earned by creating and selling fret boards as part of the National Science Foundation Grant.

Students who opt to make these fret boards earn \$2 apiece to put towards their own guitar kits of \$130.Students use algebra knowledge and design using the coordinate system with quadrants.

"Today we're going to clean up the bodies,by using the horizontal sander belt. Remember to sand downhill." Classmates take off for the sanders, while others use routers to drill holes Manufacturing teacher Doug Hunt inspects the guitar edges for additional sanding, while classmates assist one another during the cutout of personal guitars. "I didn't even know guitars were made out of wood," manufacturing student Steven Perry said. "I'm going to design mine like a 'Strat'." Students choose their own guitar body types, grains and colors, but "have to learn how to play on their own," Hunt laughs.



Good News... in Area 18 CTE

Brian
Burnworth
Huntington North HS
Skills USA Nationals
First Place
Precision Machining
MICK JARRETT, TEACHER





Dylan Sutter South Adams HS Ford/AAA First Place Auto Skills GARY MCMILLAN, TEACHER

Meet the Industry:

Hoosier Pattern Inc • Keith Gerber, President

www.hoosierpattern.com

How can schools best educate today's youth for jobs in your business?

A Have informed counselors and teachers in technical fields. Teach math skills - converting fractions to decimals and basic knowledge of measuring instruments. Take field trips to local businesses. See what manufacturing businesses do in the area.



Where would a person get the necessary skills required for your jobs?

A Basic skills at educational institutions like Machine Trades at South Adams High School.

What is the entry level pay?

A \$9 to \$12 per hour depending on skills. Five year apprentice program. Advance in pay every quarter over five-year program. College classes required in the first four years of apprenticeship. Journeyman card after five-year program making \$60,000 per year.

Do you anticipate increased shortages in trained Precision Machinists?

A Yes, because of the increased workload and an aging work force. Our average age is 40.

South Adams junior precision machinest Quinn Dailey works on programming a plywheel for a motor on a lathe in the shop at the high school. South Adams offered two years of Precision Machining and college credits with Vincennes University for students interested in continuing their careers.

Austin Wendel

Jay County HS
Robotics President
Part of Robotics team
to win honors in the
Worlds competition
with the Gateway
VEX Bot
Doug TIPTON, TEACHER



Andrew Minnich

Jay County HS Nationals Qualifier First Place Poultry Production

Trevor Blankenbaker

Jay County HS Nationals Qualifier First Place Entrepreneurship

Melissa Murrell

Jay County HS
Nationals Qualifier
First Place
Wildlife Production &
Management
Jay County

FFA chapter sponsors:

MELISSA WOLTERS BRITTANY BRIDGES CODY LINVILLE SETH SWALLOW



Members of Bluffton's Culinary Arts program work together to mix and bake the 300 cookies they need to cater the "Banks of the Wabash" band competition. Karen Reed is the instructor.

Area 18's CTE faculty



Home Grown Instructors

Building a community is important not only within an individual school system, but throughout the Area 18 Career and Technical Education's nine schools, as well.

This feature will hopefully highlight many hard-working, talented individuals throughout Huntington, Wells, Adams, Blackford and Jay counties who work with our students to help them develop skills and gain certification for 21st century employment.

Area 18 CTE instructors come from teaching, nursing, technical and business backgrounds. Meet two this month who are graduates and now instructors at their home schools.

The CTE Good News Digest is a quarterly publication of Area 18 to celebrate students and their teachers involved in career and technical training throughout Northeast Indiana. This publication was printed by students in the Jay County Graphic Design and Layout class, taught by Chris Krieg.

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ANDY HACKENJOS
Building Trades
Adams Central High School

course in CAD as a junior was the "single most important class I took in high school that prepared me for college," said Andy Hackenjos, a 1993 graduate of Adams Central.

Now in his 12th year as a construction trades teacher at his alma mater, Hackenjos noted "safety, work ethic, teamwork and responsibility" as the key elements he wants his students to learn.

Students in his construction classes have been building homes in the community for a dozen years. The students do everything from concrete, flooring, walls, framing, roofing, and window and door installation to their own electrical, plumbing and HVAC installation, insulation, air sealing, drywall

installation, masonry, baseboard, painting and trim.

"My goal is to introduce as many skills trades as possible utilizing a residential setting," Hackenjos said.

All students are required to complete a OSHA construction safety and health course, and receive an OSHA certification card.

As for his personal life, Andy is married with two children. He jokes that he "used to have hobbies" and was an avid motorcycle rider but that children changed that. "And I wouldn't want it any other way."



KEVIN MORRIS
Auto Service Technology
Norwell High School

orkplace specialist Kevin Morris knows what it means to give back to education, as the 18-year local business owner of Precision Service, Auto and Truck Repair, has decided to enter the classroom this fall to get the auto service program "back up and running" at the school where he first got his start: Norwell.

Following his associates degree from UNOH, Morris became a technician for three years and then a service manager for another three before beginning his own business.

Additionally, Morris is taking an on line class from Ball State to professionalize his teaching license and has taught night classes at Ivy Tech.

"My driving force for being here in the classroom is as an employer. I don't feel that we are getting quality kids in the technical fields," Morris said.

"Maybe I could have a positive influence to get better students involved in this as a career choice."

Although it is just his first year in the classroom, Morris has already attended the IACTE fall conference, and obtained 6 dual credits for his Auto Service Technology classes with Ivy Tech, with a potential to double that to 12 credits next year.

Students in his classes will have the opportunity to tests and pass the state test for ASE certification, which would certify them to work on brakes, suspensions, and steering.

"My goal when they walk out of here is that they would have the skills and knowledge to gain an entry level position," Morris

Kevin is married to his wife Deb, who is currently working on her dissertation in Rhetoric and Writing, and is the father to two grown sons.

Area 18 Career & Technical Education Kevin Keller, director Bluffton High School #1 Tiger Trail Bluffton, IN 46714