

**Students embrace STEM.**  
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**Wildcats advance with overtime win.**  
See page 14.



# The Standard-Journal

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## STEM teams offer innovations



Matt Farrand/The Standard-Journal  
**Lauren Comly, Saman Naseri and John Bodenman** display a prototype football helmet which lights up after a potentially dangerous impact for Governor’s STEM Competition judges

### Apply solutions to common Pennsylvania problems

BY MATT FARRAND  
Staff writer

MILTON — The commonwealth’s chronic challenges may be remedied by people who are now in high school.  
Those problems include degradation of highway bridges, athletic concussions, how to clean

up ground water contaminated by fracking and deer wandering into the paths of automobiles.  
Teams from four area secondary schools presented solutions in the style of the television show “Shark Tank” at the Governor’s STEM Competition at CSIU area headquarters. Rules stipulated the project must be common the state.  
Central Columbia students came up with an item which will monitor the condition of steel

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## Honoring Valley Veterans

### Pain of post-war treatment lingers for Marine veteran

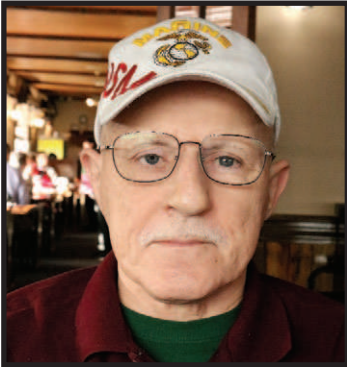
BY CHRIS BRADY  
The Standard-Journal

Marine Corps veteran Lon Bogart Sr. saw much of Vietnam during his tour. Having volunteered to be a courier, he flew in and out of hotspots from the DMZ to the Mekong Delta and everywhere between.

Sometimes, he’d fly to remote bases to deliver a message, then have to stay the night and fly out the next day.

“In Danang one night, they dropped me off late,” Bogart remembered. “I was looking for a place to stay that night and saw this nice place with a bed, row of nice, clean toilets... It was an Air Force barracks and it was nice. I wasn’t allowed in there. From that time, I hated the Air Force.”

Bogart enlisted in the Marines on July 31, 1967. A Berwick High graduate, he and his brother enlisted. He wanted to join the Navy, but all slots were taken, so it was on to the Marines and basic train-



Lon Bogart

ing at Parris Island, S.C.  
Vietnam was in the news, and Bogart knew some friends that had returned from their tours in Southeast Asia.

“I had a few friends that were there and came back, some neighbors,” he remembered. “They didn’t talk much. I knew they were there, but that’s about it.”

Following 12 weeks at Parris Island, Bogart continued his training at Camp Lejeune and Camp Geiger, before heading to Camp Pendleton,

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## ‘More of a feeling’

### Kuhns describes participation in THON

BY MATT FARRAND  
Staff writer

STATE COLLEGE — Kylie Kuhns, a Penn State University junior from Mifflinburg, was one of thousands of participants in the recent THON for pediatric cancer research.  
She said the annual on-campus dance marathon is always a high-energy event.  
“Typically (the Bryce Jordan Center) reaches full capacity on Saturday afternoon in anticipation for Pep Rally and then again really early Sunday morning where spectators ride it out until the end,” Kuhns said. “I always say that THON is more of a feeling rather than something you can explain. The energy and love you feel while looking around at all of the students coming together for one cause is amazing.”  
Kuhns was selected to dance in THON 2018, which meant she had to stay standing and not sleep for 46 hours straight.  
“I surprisingly did really well the whole time,” Kuhns said. “I never really hit a low point. I think that is because of the energy

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photo provided  
**Kylie Kuhns** of Mifflinburg, founder of Kelsey’s Dream, was selected to dance at THON 2018.

## Hundreds absent at Warrior Run amid rumors of threat

BY CHRIS BRADY  
The Standard-Journal

TURBOTVILLE — With social media rumors swirling overnight Thursday, Warrior Run School District officials worked Friday to ease parents’ concern for student safety while an amped up presence by state police greeted students throughout the day.

District Superintendent Dr. Alan Hack sent out a message Thursday to parents, and again Friday morning regarding the situation involving a rumor of a threat and subsequent social media rumors. In Friday morning’s call to parents, Hack noted that he understood parents may wish to keep students home as a safety precaution.

“District-wide we had 385 students absent,” Hack said. “That’s about 25 percent.”

No one has been taken into custody and no one has been charged in the wake of the incidents, Hack said.

“State police determined no threat was ever made,” he said. “An accusation was there, but no student made an actual threat.

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OBITUARIES

**Roy B. Bergerstock**

DAILY THOUGHT

“It is the individual who is not interested in his fellow men who has the greatest difficulties in life and provides the greatest injury to others. It is from among such individuals that all human failures spring.”  
— Alfred Adler, Austrian psychoanalyst (1870-1937).

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Matt Farrand/The Standard-Journal  
**Makiah Brewer**, a Central Columbia student, explained for Governor's STEM Competition judges how electronic devices may monitor the condition of metal highway bridges.

Projects

◆ Continued from page 1

bridges and actually close access to them before the risk of collapse increases.

Makiah Brewer presented the project and noted that more than 6,000 bridges in the state are considered unstable. Hands-on monitoring can get costly, she noted, and until there are more resources, their electronic device could be a solution for metal bridges.

"They are having a harder time inspecting the metal," Brewer said. "It is underneath and within the bridge."

An Arduino device and voltage meter, powered by a solar cell measure the integrity of the metal. When it weakens, a gate can be rigged to keep traffic away. Concrete bridges would still need hands-on inspection.

Jessica Mowery and Rebecca Vertucci also collaborated.

A football helmet which can sense the force of a blow to the head was presented by John Bodenman, Lauren Comly, Leah Fritz and Saman Naseri, Bloomsburg University Magnet School students.

Naseri explained to judges that it uses an accelerometer to gauge impact and then light up if a hit is excessive.

Jeff Kay, a judge with coaching experience, was fearful that a helmet which lights up may seem to "reward" a blow to the head.

It was also noted that similar devices are already being marketed. Naseri said their goal was to make it a mass market product, thus lowering the price to about \$180 apiece if vendors offer a break for a nonprofit organization. The concept helmet, with full retail prices paid for supplies, cost more than \$400.

The Sunbury Christian Academy team of Kennedy Dorman, Seth Kabonick, Colton Long, Josiah Miller and Bailey Rhodes devised a

device which emits an audio tone meant to scare deer away from the paths of oncoming cars.

Heather Keller, biology teacher, said it is different from often ineffective devices in that it emits varying pitches and frequencies and is powered via a solar cell and storage battery. Its highest frequency is above human hearing range.

Mid-West students Dominick Abate, Keenan Dietz, Chloe Lantz and Cole Sauer developed a prototype of a device which would clean well water contaminated by fracking. Their device uses a retaining pond with water hyacinths to filter out contaminants. The water is then transferred to a second filter and boiled using solar power via a fresnel lens.

Sauer said the device in its current state distills about 2.5 gallons of potable water per hour.

Tanya Dynda, institutional technology support specialist, said the students were from grades 9 through 12.

Judges also included Winnie Black, PSAYDN Project Accelerate coordinator, Kristen Liberati an in-school workforce specialist, Beth Rogowsky, assistant professor at Bloomsburg University and George Waltman, retired director of the Bucknell University Project Lab.

An improvised team project followed the presentations. Project-in-a-Box required students to solve a problem on the fly using only items presented in a cardboard box. The improvised projected counted in the scoring.

Dynda noted there would be one winning team, which would move on to state competition at Thaddeus Stevens College.

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Photo provided  
Kelsey's Dream, a nonprofit founded by Kylie Kuhns of Mifflinburg, was well-represented at THON 2018, a fundraising dance marathon for pediatric center research.

Kylie

◆ Continued from page 1

in the BJC and the support of my friends."

After finding out she was selected to dance at THON, Kuhns went to the gym daily during the week before, but got busy late in the week and ended up not training that much. There are no formal training sessions but a Dancer Relations Committee compiles a list of items dancers should have.

The music is upbeat, Kuhns said, and is great for staying awake.

But a little fatigue is inevitable.

"Sometimes I needed a break from it so I would just take some laps in the back hallways of the BJC," she recalled.

Kuhns noted she first became involved with THON because of her older sister Kelsey, who died of cancer in 2005. She founded Kelsey's Dream shortly thereafter and offered expertise in similar areas. She noted that Kelsey's Dream is currently contacting hospitals to help deliver more Hopper the Cancer Crushers to children with cancer.

"Last year I had the honor of

being a communications captain and this year an alumni engagement captain," added Kuhns. "These leadership roles allowed me to give back to this organization and help make a difference.

"I am also touched and amazed by how students at Penn State share the same passion as me," Kuhns observed. "I have met some of my best friends through THON and am amazed everyday by what they do for children with cancer."

The 46-hour event is the largest student-run philanthropy in the country, and raised \$10,151,663.93 for the Four Diamonds Foundation.

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SCCD  
awards  
planned

SELINGSGROVE — The Snyder County Conservation District's Annual Awards Banquet will be held at 6:30 p.m. Friday, March 9, at Christ Community Church, 3939 Park Road, Selingsgrove.

Tickets are available for \$15 for adults, \$8 for children 6-12 free for children under 5.

Conservation awards will be presented for environmental projects and accomplishments.

The guest speaker will be Kerry Gyekis, a consulting forester and author from Tioga County, who will present a program on the mountain lion.

Call 570-837-3000 ext. 110 or email sccd@ptd.net for tickets.

Matt Farrand/The Standard-Journal  
**Seth Kabonick and Bailey Rhodes**, students at Sunbury Christian Academy, explained how a sound generator using variable high frequency audio could repel deer from the paths of motorists.

