

BASEBALL

Aggies hang on in extra-inning thriller

No. 3 A&M tops Texas State in an up-and-down midweek game

By Andre Perrard

▷ In a back-and-forth rollercoaster ride, Tuesday night presented Aggie fans with another example of Olsen Magic. Thanks to a walk-off hit from Logan Nottebrok, A&M won 8-7 over Texas State in 11 innings.

"A lot of heroes tonight," said A&M head coach Rob Childress. "Everyone got to play. Defensively we played really good, made some big plays, and with the exception of a few innings we pitched a pretty good night too."

The Bobcats (18-25-1) picked on Turner Larkins from the start, loading the bases and capitalizing on the opportunity. They drove in three runs in the top of the first to take a 3-0 lead over A&M early.

A&M had a response. After scoring a run in the first inning, A&M received two RBIs in the third inning from Ryne Birk and Hunter Melton to tie the game at 3-3 after three innings of play.

Aggie starting pitcher Turner Larkins got in a jam early, and after surrendering three runs he was taken out of the ball game. In relief, Matt Kent was lights out for A&M. In his 5 1/3 innings of relief duty, he pitched scoreless, hitless baseball. Kent set down all batters he faced, 16 straight, with seven strikeouts to keep the Bobcat lineup at bay.

"I came in in the first just looking to get us a stop and allow our offense to get us back in the game," said Kent.

The sixth inning was big for No. 3 A&M (38-7). Blake Allemant gave the



Kathryn Perez — THE BATTALION

Matt Kent pitched 5 1/3 perfect innings in relief Tuesday.

Aggies their first lead with a RBI single, then Nick Banks beat out an infield single on an error that gave him one RBI, but scored two runs. Another RBI single, this time from Mitchell Nau, gave the Aggies a 7-3 lead after six innings.

Texas State responded with a four-run inning of its own. After Kent exited the game, the Bobcats loaded the bases, and RBI after RBI helped Texas State tie the game 7-7 after seven frames. A&M had to utilize four pitchers in the inning before it was over.

The Aggies had their chances late in the game, but could not capitalize. The game went to extra innings in a 7-7 tie.

A&M waited patiently, and in the 11th

inning it got its chance at the win. The Aggies loaded the bases, and with two outs, Logan Nottebrok hit the walk-off single to win the game. Nottebrok almost had the walk off home run in the ninth inning, but his two big hits went just foul. The third time was the charm for Nottebrok.

"In the at-bat, I just kept telling myself to have a good at-bat," said Nottebrok about his winning hit.

With the win, A&M remains unbeaten in mid-week contests this season. The Aggies will hit the road this weekend as they travel to Knoxville to take on Tennessee.

REVEILLE CONTINUED

and brush her fur. I don't have any 8 a.m. classes so she usually sleeps after her morning routine."

Daylon Koster, agricultural economics senior and Reveille's handler from 2012-2013, said Reveille is mostly calm — with some humorous exceptions.

"I was in my animal science class with Rev in the front row and the professor was talking about and displaying cows in his lecture," Koster said. "Being a natural herding dog, Reveille got extremely curious at the sight of these cows and barked. All 300 students got out class early that day."

Reveille has not only met professors and students, but has also spent time with high-profile campus and national figures.

"[Rev] has gotten to fly with Coach Sulmlin in private and in her own seat," Koster said.

Business administration freshman David Sharp is Reveille's "third leash," meaning if Moss or her "second leash" cannot take her to the event, he is in charge of her. Sharp describes Reveille as fluffy, sassy and playful.

"She loves to chase squirrels," Sharp said. "One time I was with her and as she was posing for a photo, she saw a squirrel about 50 feet from her and immediately froze. She began creeping up to the squirrel and as soon as it locked eyes with her, she darted after the squirrel, chased it up a tree and was barking throughout."

Despite the many everyday surprises not typical to any other dog, Reveille



Reveille VIII walks with cadets before an home football game.

has stuck to her routine and by her handlers' sides.

"She knows the job better than I do," Moss said. "Since I am new, she walks me through what I'm supposed to be doing and where I'm going. She knows where she's supposed to go. She even has a designated poop spot right behind the Quad."

Sharp said sometimes she outright refuses to carry on with her responsibili-

ties. "Whenever I'm walking her off the Quad, she knows that once she passes the arches she's heading somewhere," Sharp said. "Sometime, she anchors herself to the ground and tugs on her leash, refusing to budge."

Koster said Reveille remembers her handlers and treats them with the same affection.

"Even though it's been two years since I was her handler, [Rev] is still in the dorms and I get to babysit her all the time," Koster said. "She has a great memory. Every time she sees her breeders, she runs up to them, tackles them and licks them."

Moss said next year he will face the responsibility of learning how to train a brand new Reveille IX.

"[Reveille VIII] has things that bother her and they have been known for so many years," Moss said. "With the new Rev, I'll be figuring it all out from trial and error. I'll be teaching her all the ropes, especially how to compose herself around people and at events."

Koster said Reveille VIII is an amazing dog and served her role well.

"I'm excited for her," Koster said. "She had a great run. I also can't wait to meet the new Reveille IX."

The celebration will be from 4-6 p.m. at the Clayton Williams Alumni Center.

RESEARCH CONTINUED

it, it will absorb the energy, and then give off the energy as heat," Applegate said. "That heat warms up the local tissue and that causes a pressure wave, which is an acoustic wave. If you do this and listen with an ultrasound transducer, it will show up as sound and this is used to identify the things absorbing that light."

With high-powered microscopes, tiny vessels on the order of several microns can be seen. With electron microscopes, individual atoms can be seen, but some molecules on the subcellular level are still not easily imaged.

"We can specifically target very small molecules that absorb light, and see them very well, with nothing else," said Scott Mattison, biomedical engineering doctoral student and one of the students in Applegate's lab.

The A&M team is on the forefront of this technique, and is getting better readings than were previously possible through a process called transient imaging. They are now in the final stages of fine-tuning the process.

"Instead of looking at straight light absorption, we are looking at transient absorption or absorption over time," Applegate said. "This allows us to get a resolution that is 10 times better than standard techniques."

Mattison, who plans and runs experiments and oversees equipment maintenance, said the difference this makes in practice is tremendous.

"An analogy could be that we are

going from the old SD television to a high-definition television," Mattison said.

The improved photoacoustic imaging has two main research applications. The first, which is researched in Applegate's lab, is close monitoring of the activity of the mitochondria, the powerhouse of the cell.

"We are trying to directly image cytochromes, which are subcellular particles in the mitochondria that are used in metabolism," Applegate said.

If this is accomplished, Mattison said it will have huge implications in pharmaceutical research.

"If everything works how we want it to, we can watch the energy levels of cells change," Mattison said.

The technique can be used to test how certain drugs affect cells, including the cancer cell. If the energy output of the cancerous cell is known, the efficacy of a cancer treatment can be better understood and improved.

The second application is in the monitoring of blood flow.

The photoacoustic imaging technique is limited by the fact that it can only see light-absorbing particles. Mattison said, fortunately, hemoglobin in the blood is an excellent absorber of light.

Right now, Mattison said research throughout the physics and medical communities uses rats to image different biological processes.

"With photoacoustic imaging, you can look through the rat's skull and look at its brain activity," Mattison said. "You can watch where the brain reacts when the rat is subjected to various stimuli."

EVEREST CONTINUED

was shocking.

"At first everyone was confused as to what was going on," Banks said. "The ground shook vigorously and we all just looked at each other with, 'What was that?' faces. After realizing it was an earthquake, we all ran for safety and seconds later snow filled the entire town of Gorak Shep, completely wiping out the phone lines and covering hikers."

Their rescue was difficult, Banks said, because people with immediate needs were helped first.

"Pheriche was completely destroyed by the time we managed to get down," Banks said. "Evacuations were occurring left and right to people of more need, so we were told to go to [Namche Bazaar], which is about a two-day hike."

By order of the Nepal Army, however, all lodges were closed along the way to Namche Bazaar due to potential danger to aftershocks, Banks said.

"So instead of stopping after about six hours of hiking we ended up hiking nearly 10 hours with Olivia being sick," Banks said. "But we finally found a lodge that had set up a huge tarp outside of their lodge and let us sleep there."

The next morning, they hiked the rest of the way to Namche Bazaar, Banks said. They went to the medical clinic in the village and arranged a medical evacuation for Lewis.

"The evac first took us to Lukla where we waited for hours for our second helicopter," Banks said. "While waiting we sat and watched as they brought body after body down via helicopter. It was devastating."

Banks said she feels fortunate to have survived. "Hearing other peoples stories here just break my heart," Banks said. "I think I was lucky to have been in the mountains when the earthquake hit because there was not nearly as much weak infrastructure to crash down — just the danger of rockslides and avalanches."

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