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## It's about the journey



Scott Foreman, left, sets the pace for his bicycling class Thursday afternoon at IM Sports-West. Foreman rode from Denver to East Lansing, collecting donations for every one of the almost 1,300 miles for MSU Food Bank and the Greater Lansing Food Bank.

KATIE BAUSCH/THE STATE NEWS

**MSU employee bikes from Denver to Lansing; raises money for local food banks**

By Krystle Wagner  
THE STATE NEWS

When Scott Foreman mentioned biking across the country to his wife about a year ago, the MSU information technologist's spouse rolled her eyes in disbelief.

The then-overweight and out of shape Foreman didn't know if he had what it took to reclaim his body.

"Three years ago, I would have thought there

"Three years ago, I would have thought there was no way I would have done this. I was exhausted by the time I got out of work.

Scott Foreman, biker

was no way would I have done this," he said. "I was exhausted by the time I got out of work. I would go home (and watch 'Wheel of Fortune.'"

Using cycling to shed weight and build muscle mass, Foreman biked 1,320 miles in less than two weeks this past June, venturing from Denver to Lansing.

"He talked about it nine to 12 months beforehand," Janet Foreman, Scott's wife, said. "He gets excited about stuff and I'm always saying, 'I don't want to pop your balloon, but do you

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To see an interactive map of the journey, visit [statenews.com/multimedia](http://statenews.com/multimedia).

### SCIENCE

## World's largest particle accelerator undergoes repair

By Zane McMillin  
THE STATE NEWS

The end of the world might be on hold. At least until November.

Almost a year after the world's biggest high energy particle accelerator broke to days after being switched on, a plan was created to resume operations, scientists and MSU professors associated with the project said Wednesday.

The Large Hadron Collider, or LHC, located in Europe, was switched on in this past September, with the goal of creating conditions similar to those immediately following the Big Bang. Prior to the particle accelerator's turn-on, many around the world feared the device could create a black hole that would end the universe.

However, the multibillion-dollar project at the European Organization for Nuclear Research, or CERN, stalled last September when splices between several large magnets malfunctioned, causing a liquid helium leak that damaged about

25 percent of the LHC's equipment, said Raymond Brock, an MSU professor of physics.

"It was a huge effort to repair it," he said. "They've just been working constantly since the accident to get it ready."

Brock travels to CERN intermittently each year to work with about 20 other MSU collaborators on ATLAS, a 7,700-ton detector, which, when the LHC begins operating again this fall, will collect a large amount of data to be sorted through and transmitted to various universities and institutions across the globe.

The LHC has been in the works for 15 years and has cost \$9 billion. It most likely will be turned back on in November at half the energy level originally planned, Brock said.

He said it widely was understood throughout the project that it was not a matter of whether the LHC would break down, but when.

"Anytime a particle accelerator of any size is built, its

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### FOOTBALL

## Players vie for starting quarterback

By Matt Bishop  
THE STATE NEWS

The next few weeks could dictate the course of the MSU football team's season.

Minus one starting quarterback following the graduation of Brian Hoyer, sophomores Kirk Cousins and Keith Nichol will battle during fall camp to determine MSU's starting quarterback.

The Spartans open the 2009 season Sept. 5 against Montana State at Spartan Stadium.

To this point, Cousins and Nichol have engaged in an even battle.

The competition was even through spring football practice. One was expected to emerge during the annual spring game, but that never materialized as both threw for 357 yards and four touchdowns.

"The situation we have right now is certainly unique, at least from my experience, my years coaching quarterbacks, where it's this tight, with two quarterbacks of this quality with the character

that they have and the desire," quarterbacks coach Dave Warner said.

MSU head coach Mark Dantonio said one great practice or one poor practice won't torpedo either of their chances. He said it will take a string of good or poor performances to set one apart from the other.

"At some point, you have to make a decision and go with one, but it doesn't mean the other one isn't going to have opportunities either," Dantonio said. "And that's a tough call sometimes. But we're going to evaluate this on the practice field and in the meeting rooms."

At MSU's Media Day Tuesday, Dantonio seemed bearish on using a two-quarterback system.

"You have to allow a quarterback to be in rhythm," Dantonio said. "Does that mean a half, a quarter? It depends on how many plays they get. You have to evaluate how August is going to go and that's the first part of the process. If we come out of August and everything is like it was, then you move to the next thing."

When asked what his thought

would be if Dantonio does decide to utilize a two-quarterback system, Nichol had a simple answer.

"If we win games with it and if we're scoring touchdowns with it, I'm fine," he said.

Cousins saw spot action in five games last season, most notably against Ohio State and Georgia. He completed 32 of 43 passes for 310 yards with two touchdowns and one interception. He said he's improved mentally through spring practice.

"Anytime you go through spring ball and two-a-days, you get a lot better at running the show and being confident on the mental side of the game," he said. "A big part of being quarterback is knowing what you are doing mentally."

Nichol, who transferred from Oklahoma following the 2007 season, sat out last year per NCAA transfer rules. He said he came to campus last May weighing 204 pounds but has since bulked up to

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### UNIVERSITY

## Art museum still raising funds for construction

By Kayla Habermehl  
THE STATE NEWS

Although construction of the Eli and Edythe Broad Art Museum was delayed earlier this spring, university officials said the project is on schedule to break ground in spring 2010.

Linda Stanford, associate provost for academic services, said MSU is continuing to raise money for the \$40- to \$45-million project. Ground breaking for the building originally was set for spring 2009 but was delayed a year because of inflated cost estimates and continuing efforts to find funding for the museum.

"We are continuing to raise funds," she said. "We're working toward spring ground breaking with the idea that once we have the ground breaking, the trucks will begin moving in."

The Broad's Ed donated \$26 million to the project in summer 2007. Eli Broad, a billionaire philanthropist, is an MSU alumnus.

Stanford declined to say how much money MSU had raised thus far in addition to the Broad's donation.

"We're close enough to go forward," she said.

She said MSU is trying to keep the cost close to \$40 million, but because of changing costs of materials and supplies, the cost could increase to about \$45 million.

The design for the building was created by London-based architect Zaha Hadid and was chosen in January 2008.

The museum will be located on East Circle Drive across from Student Services. Stanford said there have been some changes to the original design.

"Basically, we've moved a few things in the internal spaces, but it will look like it does on the Web," she said. "We don't know the nature of the exterior planning ... (It will be) silvery and it's not going to be brick."

Special education senior Emily Francis said she liked the design for the museum, which is more different than the surrounding buildings.

"It's bringing a new culture," Francis said. "None of these buildings (around the site) are outdated—in a couple decades (the museum) will be vintage."

Jed Dingsens, a teaching specialist in the MSU School of Planning, Design and Construction who uses the museum's design for his classes, said the hardest part of the planning process is working on the skin for the structure.

"The skin is like the envelope or clothing for the building," Dingsens said.

The roof of the structure has pleats, which is a challenge because the valleys will collect snow and rain and could lead to leaks, he said.

"The hardest part is—right now—trying to get the envelope skin built in a way that won't leak," Dingsens said. "I met Zaha Hadid and I said 'If you can pull off this pleated wall, it will be a great accomplishment.'"

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