

July 27, 2012

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Dear Friend of the Sanford Lab:

Here's something fun to do tomorrow (Saturday, July 28) in Sioux Falls, S.D. The first annual It's All About Science Festival will be held from 9 a.m. to 5 p.m. at the Sanford Center at 2301 East 60th St. North. The Sanford Underground Lab will be among 40 different exhibitors.

But wait, there's more! From 9:30 a.m. to 10:30 a.m., science festival visitors can talk live via high-def video to the two scientists at right—Markus Horn and Mikayla Thompson, both of Yale University. They're members of the Large Underground Xenon (LUX) dark matter detector team, and they'll be talking from 350 miles west of Sioux Falls and 4,850 feet underground in the Sanford Lab. Science festival visitors will participate from the comfortable, high-tech Dakota Theater at the Sanford Center.

At 9:30 a.m. I'll show a couple of very short time-lapse videos about building the Sanford Lab, just to get folks oriented to our deep lab. Then Markus and Mikayla will answer questions. Markus is a post doc and Mikayla is an undergraduate physics major, so they'll bring two unique perspectives to this exciting research.

The LUX detector was just delivered to the 4850 Level this month, and the team is making great progress installing it. Markus and Mikayla will have the latest news about an experiment that could become the most sensitive instrument ever to look for dark matter—the dominant, but so far undetected, form of matter in the universe

Please feel free to forward this information to friends in the Sioux Falls area. Contact me by e-mail for more information. To learn more about the big science festival click on <http://www.crazy4science.org/>.

Hope to see you there,

Bill Harlan
Communications Director



Markus Horn and Mikayla Thompson, seen here in the Davis Campus on the 4850 Level, are working on the xenon plumbing for LUX experiment.