



Welcome Beloit | Your Profile | Sign out

WCLO | WJVL | Walworth County Today

E-Edition

# GazetteXtra



67.1°

Tuesday, August 12, 2014

- News
- Sports
- Opinion
- Entertainment
- Community
- Blogs
- Multimedia
- Services
- Buy & Sell
- Jobs

## SHINE passes internal milestone

Print
 
 Comments

JIM LEUTE  
August 11, 2014

SHINE Medical Technologies and Phoenix Nuclear Labs are one step closer to production of medical isotope in Janesville.

The partnering companies said they recently ran their second-generation neutron driver prototype for 24 consecutive hours with nearly 100 percent up time.

Completion of the milestone is an important demonstration of the reliability and robustness of the neutron driver, which is a key enabling technology for SHINE's isotope production facility.

Search...

**LOS LONELY I + JONNY LA**

**SEPT 6 // +\$10 FREE W/TICKET I**

**HO-CHUNK GAMING WISCONSIN DELLS** **BUY TICKET**



GAZETTE ARCHIVES

SHINE founder and CEO Greg Piefer shows off a full-sized version of his company's particle accelerator, which will be used in Janesville to manufacture medical isotopes.

SHINE is working toward regulatory approval to build an \$85 million medical isotope plant on Janesville's south side.

The plant would use low-enriched uranium in a series of eight accelerators to produce molybdenum-99, a medical isotope used in more than 30 kinds of diagnostic imaging procedures and more than 40 million medical imaging tests each year.

The company wants to fill a void expected

when two other nuclear reactors that use highly enriched uranium to produce isotopes are taken out of service in 2016 and 2020. The plants in Canada and the Netherlands are the world's leading isotope suppliers.

The Janesville plant is expected to offer 150 high-paying jobs, open in late 2016 and generate annual revenues of \$200 million in 2017.

Greg Piefer founded the company in 2010.

Five years earlier, he founded Phoenix Nuclear Labs, which has developed a proprietary, particle accelerator-driven, nuclear fusion technology that has applications ranging from medicine to national defense.

"I'm very excited PNL has demonstrated the reliability of their accelerator technology," Piefer said. "Their team

Ads by Rubicon Project

TAKE **FREE ONLINE C**  
FROM THE BEST UNIV  
IN THE WORLD.

[VIEW THE LATEST COURSES  
AT EDX.ORG >>](http://EDX.ORG)



Trending now

Death Notices for Aug. 12, 2014

**Our Views: Support K. Andreah Briarmoon and her ramblings at your own risk**

**Residents tour city-owned former gas station**

**Attorney general, congressional races top Wisconsin primary**

**10 things to know for Tuesday, Aug. 12: Fans, stars stunned at Robin Williams' death**

**Big election, low turnout**

Most read Tuesday

Most commented

**On the lakes: Fishing a mixed bag in midsummer**

Tuesday, August 12, 2014

**Dick Polman: Ebola ignorance and the marketing of fear**

Tuesday, August 12, 2014

**Our Views: Support K. Andreah Briarmoon and her ramblings at your own risk**

Tuesday, August 12, 2014

**Greg Peck: Do your civic duty, vote today**

Tuesday, August 12, 2014

Allergies got you down? Try a





continues their strong track record of achievement, having reached this important milestone sooner than expected.

“This specific accomplishment proves something we have been confident in all along—that the accelerator technology can work reliably at the power levels needed by our plant for extended periods of time.”

Katrina Pitas, SHINE's vice president of business development, said the two companies are working toward a continuous run of 132 hours for its accelerator.

That's the amount of time necessary to produce one batch of Mo-99, she said.

 [Print](#)    [Comments](#)

Attention: New All Access members and New digital only subscribers. Your subscription plan allows you to write and post comments, however it may take up to 24 hours to go into effect.

GazetteXtra.com does not condone or review every comment. Read more in our [Commenter Policy Agreement](#).

- **Keep it clean.** Comments that are obscene, vulgar or sexually oriented will be removed. Creative spelling of such terms or implied use of such language is banned, also.
- **Don't threaten to hurt or kill anyone.**
- **Be nice.** No racism, sexism or any other sort of -ism that degrades another person.
- **Harassing comments.** If you are the subject of a harassing comment or personal attack by another user, do not respond in-kind. Hit the "Suggest Removal" button on offensive comments.
- **Share what you know.** Give us your eyewitness accounts, background, observations and history.
- **Do not libel anyone.** Libel is writing something false about someone that damages that person's reputation.
- **Ask questions.** What more do you want to know about the story?
- **Stay focused.** Keep on the story's topic.
- **Help us get it right.** If you spot a factual error or misspelling, email [newsroom](#) or call 1-800-362-6712.

