Positive change is visible across campus. Shocker Hall, WSU’s new student residence hall, has opened to great reviews. Students are thrilled with their accommodations, the new dining services and the fact that Shocker Hall is located in the heart of campus. It also turns out to be a good spot to have a meal or snack and is open to all.

The Rhatigan Student Center renovation has been completed and is an all-new space for campus activities and meetings. Its food court boasts a number of fast food choices. The third floor Shirley Beggs Ballroom is beautiful and will nicely accommodate larger events. Also, check out the lower level recreation center with bowling lanes, pool tables and food services. What a fun place to be.

I am pleased with the response to the Innovation University reveal that took place on August 15. The interest from those wanting to bring their business to campus is affirmation that there is a void WSU can fill. I look forward to each announcement welcoming another company, and I hope you too are looking forward to the potential for growth in both the footprint of campus and the growth for expanded learning opportunities.

We have many new things to tout this fall: NIAR’s Ballistic test range, WSU Ventures and OneStop to name a few. All these, along with our traditional programs, combine to form a place where we can all Live, Learn, Work and Play together. What a great time to be a Shocker!

**Wichita State’s National Institute for Aviation Research (NIAR) has a new Ballistic and Impact Dynamics Lab at the former Kansas Coliseum site. It is now performing impact tests on oxygen bottles used on commercial airlines for a company here in Kansas.**

The testing lab consists of a thick walled containment building, a watch tower that students and employees use to carefully monitor activities, and a firing range where 20 to 50 caliber bullets are loaded and then remotely fired from the control tower.

Cameras are set within the containment building to record video of the impact and aftermath. The cameras take 100,000 frames per second. The 50 caliber bullet fired on the day of demonstration traveled at 2,842 feet per second.

This and a great deal of additional data are recorded and analyzed by NIAR research students and personnel. It traveled through a long tube and into the barrel and then into the containment building and hit three successive water balloons that were set up for the demonstration. It blew them to smithereens.

When testing oxygen bottles, the test is considered successful if the oxygen bottles do not fragment into any pieces larger than a quarter upon impact. The Ballistics and Impact Dynamics Lab has great potential for use in testing many other impact scenarios.

Paul Jonas is the NIAR manager of special programs and directs graduate students who are working on this project. Luis Nolasco was positioned to become NIAR’s newest employee a couple of days after the demonstration. Graduate students involved are Eric Gonzalez, Greg Leslie, Will Klausmeyer, Craig Wilkinson and manager Ron Koepp.
Wichita State’s University’s core research areas span a wide array of academic interests. Wichita State University’s newest center is WSU Ventures. It is a unit within the Office of the Vice President for Research and Technology Transfer (ORTT) and is all about helping you as a WSU innovator. It can help with patents, licensing and copyrights for your inventions or intellectual property (IP). WSU Ventures will provide advice and assistance in bringing your product or ideas to market while protecting your legal interests. WSU Ventures specializes in three primary areas;

1. **Technology Transfer**
   Technology transfer is the process of taking an invention from the research/development stage to the marketplace. There are several steps in the Tech Transfer process:
   - Disclosure of the invention to ORTT
   - Evaluation and market research
   - Commercialization strategy
   - File patent/copyright/trademark protection
   - Licensing to a third party

2. **Expanding Industry Partnerships**
   WSU Ventures has been expressly created to provide connectivity, transparency and a gateway to industry and other partners that make it easy to collaborate research and development.

3. **Commercializing WSU Innovations**
   WSU Ventures has experts on technology transfer and the licensing process. They will make sure your IP meets patenting and licensing requirements. They will partner with you to get your invention the most exposure possible. It is a partnership that will require specific involvement from the innovator.
   - Meeting patent application deadlines
   - Clearly articulating the benefits of your innovation
   - Working with our patent attorneys to create an accurate and comprehensive patent application
   - Identifying interested individuals and companies who would be a good fit for your technology
   - Representing your technology and discussing it with interested licensees

   Once a patent is applied for, WSU Ventures will help you market your invention to potentially interested parties. They will use industry and community contacts and connections to attract licensees for your technology or intellectual property. They can also help you partner with industries that might be interested in collaborating with you by sponsoring your research or in a number of other ways.

   WSU Ventures works with faculty entrepreneurs as well as outside investors interested in supporting new startups. WSU has exceptional research capabilities with unique facilities and outstanding capabilities to partner with individuals and business or industry.

   As a university we believe in bringing real-world experience to our students, and that is why WSU students will be involved in collaboration with our outside partners. Our goal is to involve students with experiences that will prepare them for transitioning into careers upon graduation.

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**WSU VENTURES**

**WSU VENTURES is for:**

- **WSU INNOVATORS** – Getting where you want to go.
- **INVESTORS** – Forming and assisting new WSU start-ups.
- **INDUSTRY** – Creating solutions and opportunities.
- **ENTREPRENEURS** – Getting started.

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**DO YOU HAVE AN INVENTION**

1. Is it novel and unknown by others?
2. Is it a non-obvious solution to others in my field?
3. Is it useful?