



BAE Insider

September 2017

LAB SAFETY

Environmental Health and Safety will inspect the Barnhart labs in September. This is a good time to review basic safety rules and verify your safety training is up to date.

Before working in any lab space be sure you know the following.

- Food and drinks are absolutely not permitted in the labs.
- Closed-toe shoes and ankle-length leg coverings are required. **No shorts or sandals.**
- The hazards present in the room (Hazards are listed on the door signage).
- Where to find appropriate personal protective equipment (gloves, lab coats, safety glasses, respirators, hearing protection, etc.)
- The location of exits, fire extinguishers, emergency showers/eye washes, first aid and spill kits.
- How to properly operate any equipment you need to use.

If you have any questions relating to safety, ask Jeff Smith, Alex Fogle, or the PI listed on the door *before* doing any work in the lab.

You can check the dates of your training on your [personal safety transcript](#). The courses required can be reviewed at the [EHS website](#) or you can ask Jeff Smith which modules you need to complete. Please note that some courses require an annual refresher. After addressing any training deficiencies please send the transcript as a PDF to [Jeff Smith](#).

Important safety links:

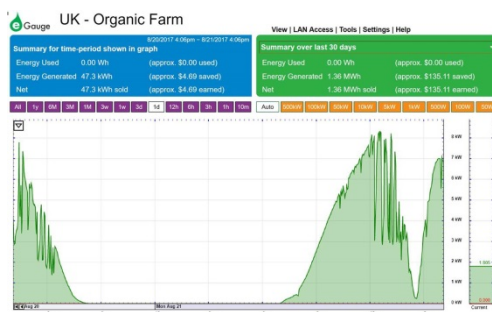
- [Laboratory Safety Training Checklist](#)
- [Environmental Health & Safety](#)

NEW GRADUATE STUDENTS

Felix Akharume (Adedeji)

Meaghan Dunn (Hayes)
Jeffrey Clark (Jackson)
Ryan Kalinoski (Shi)
Staci McGill (Hayes)
Saeid Nazari (Ford)
Michael Omodara (Montross)
Felipe Pampolini (Sama)
Austin Weiss (Sama)

SOLAR ECLIPSE IMPACT



Don Colliver shared the photo (left) which shows the dramatic reduction in electricity output from the solar system at the UK Horticulture Farm during the eclipse last week.

For more energy information, follow @EnergyUKY, run by Britney Ragland, UK energy engineer and BAE graduate student.

WEBSITE & SOCIAL MEDIA

New Pages:

[EPSCoR Track II Project — Sustainability through Science](#)

[BAE 775 Professional Practices Seminar](#)

Flickr and YouTube:

Faculty and staff can take advantage of the department's YouTube and Flickr accounts for storing video or photos. Carmen Agouridis uses Flickr as a photo repository for different projects, [BAE EXT](#). Please see Karin or Donnie if you have questions.

ACADEMIC NEWS

Senior Design Project Title

Electro-mechanical trans-axle control for the UK 1/4-scale tractor
Throttle lever and remote operator interface for the UK 1/4-scale tractor
Wetland to treat stormwater

Main BAE Technical Contact

Sama

Sama

Agouridis/Ford

Rain garden for treatment of runoff	Agouridis/Ford
Hyporheic zone meocosm	Agouridis/Ford
Waterford pond sediment retrieval system	Edwards
Bone remodeling	Peterson
Real-time control of water application	Peterson
TRAPT	Blalock
Equestrian rider impact	Jackson/Pekarchik
Home-brewer's malting system	Lovely
Franken-Chamber	Blalock

ENGINEERING DESIGN CENTER

The Engineering Design Center worked on several faculty projects during the summer, including:

FORD

- Instrumentation enclosure design/installation at Fourpole Creek in Charleston, WV.

HAYES

- Investigated using the TIG welder for making thermocouples in support of Dr. Hayes/Travis McEachern work. Testing and evaluation are being conducted.

HIGGINS

- Designed and built hybrid wind/solar power sled for Eden Shale.
- Built a shade structure for Morgan County Extension.

EXTENSION

Extension faculty and staff are starting a quarterly newsletter aimed at an extension audience. The first issue will be published in time for the winter season.

UPCOMING

Headshots—September 14-15

Blood Drive—September 18

Round Up—October 4-7

Fall Advisory Board—October 5-6, 2017

Graduate Student Recruitment Weekend—January 25-27, 2018

Southeastern Region ASABE Rally—BAE will host Rally in the spring of 2018. Dates TBD.

Continuing Professional Development Program—Spring 2018. Date TBD.