This week…

- **Brown Bag Webinar this week – Dr. Megan Butala**
  
  *What does this spaghetti mean?*
  *Breaking down what you can – and maybe can’t – learn from your XRD data*

- **Lab-Buddy Safety System for RSC After-Hours Work**

- **Did you know?**

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Brown Bag Webinar this week by Dr. Megan Butala

*What does this spaghetti mean?*
*Breaking down what you can – and maybe can’t – learn from your XRD data*

X-ray diffraction (XRD) is a powerful tool for understanding crystalline materials, including those for structural and electronic applications, spanning turbine blades, battery electrodes, and photovoltaics. It can also be used for naturally occurring or historic materials, such as geological samples or to identify the region and period of a painting.
To do all of this though requires an understanding of how you can practically apply XRD data to your experiments. In this introductory talk, I’ll go over the range of information XRD can give you about your sample, which – spoiler – is more than just identifying the phase(s) present! In addition, I will discuss the abilities and limitations of different types of diffraction experiments and data, including how national laboratory facilities can complement the great characterization tools we can use through RSC.

**Operando XRD during battery cycling to understand energy storage and ion transport**

Lab-Buddy Safety System for RSC After-Hours (5:00 – 8:00 PM) work and weekends: **It is required!**

- Please use the after-hours RSC Lab-Buddy/E-Buddy Safety System. Details can be found at [https://rsc.aux.eng.ufl.edu/safety/ebuddy.asp](https://rsc.aux.eng.ufl.edu/safety/ebuddy.asp)
• Cleanroom use (no Acid Benches) is now allowed on weekends (8:00 AM – 8:00 PM)

Did you know…?

• You should not bring any food or beverages into the labs.

• You can join the RSC Users’ Teams by clicking on the Microsoft Teams icon at the top of the Weekly Update and the RSC homepage.

• You can request to meet with RSC Staff in person or on-line through this link. It can be also accessed on the orange tabs at the RSC home page.

• You can submit an anonymous tip/note to RSC Staff.