



A Student's Perspective

Sarah Hodges





About Sarah

- From Knoxville, TN
- 3rd Year Biochemistry Major
- President of SPORES
- Research at CAER since May 2016
 - Environmental and Coal Technologies Group
 - Biofuels and Environmental Catalyst Group



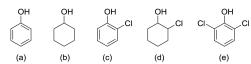




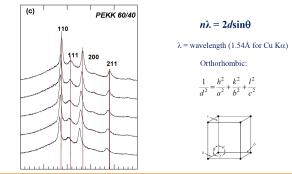
From the Classroom

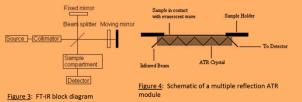
- MSE 201 Materials Science in Engineering
- CHE 230 & CHE 232 Organic Chemistry 1 and 2
- CHE 226- Analytical Chemistry
- PHY 232- Physics 2

4. For the following set of compounds below, which compound is the most acidic?



XRD: In-Class Exercise









To the Lab



Cellulose Samples after chemical treatment.
Organic Chemistry
Analytical Chemistry



XRD Machine
Analytical Chemistry
Organic Chemistry
Materials Science Engineering

Cement Samples undergoing strength testing.

Physics

Materials Science Engineering





Because of CAER

Awards

- 2016 University of Kentucky Office of Undergraduate Research Summer Research Grant
- 2017 International Research Experience for Undergraduates
- Runner Up- Best Poster Award French American Workshop on Translational Chemistry
- 2017 NSF EPSCoR Research Scholar
- 2018 International Research Experience for Undergraduates

Publications

- International Research Experience for Undergraduates Video
- CAER 101 Video
- UK Undergraduate Research Program Opens Door to International Opportunity
- Preparing 2 Publications on 2016-2018 Research





Because of CAER (cont.)

- Presentations
- 2017 University of Kentucky Showcase of Undergraduate Research (Poster)
- 2017 KY-WV LSAMP Symposium (Poster)
- 2017 World of Coal Ash Conference (Poster)
- 2017 French American Workshop on Translational Chemistry (Poster)
- 2017 Louis Stokes Midwest Center for Excellence Conference (Poster and Oral)
- 2018 KY-WV LSAMP Symposium (Poster)
- 2018 American Chemical Society National Conference (Oral and 2
- 2018 National Conference on Undergraduate Research





Indirect Effects and Future Plans

- Amazing Mentorship
- Traveling:
 - Washington D.C., Indianapolis, Oklahoma City, New Orleans, France, The Netherlands
- Broad Network
- Graduate School



