

## National Park Service 2017 Geophysical Workshop at Pea Ridge National Battlefield, Arkansas

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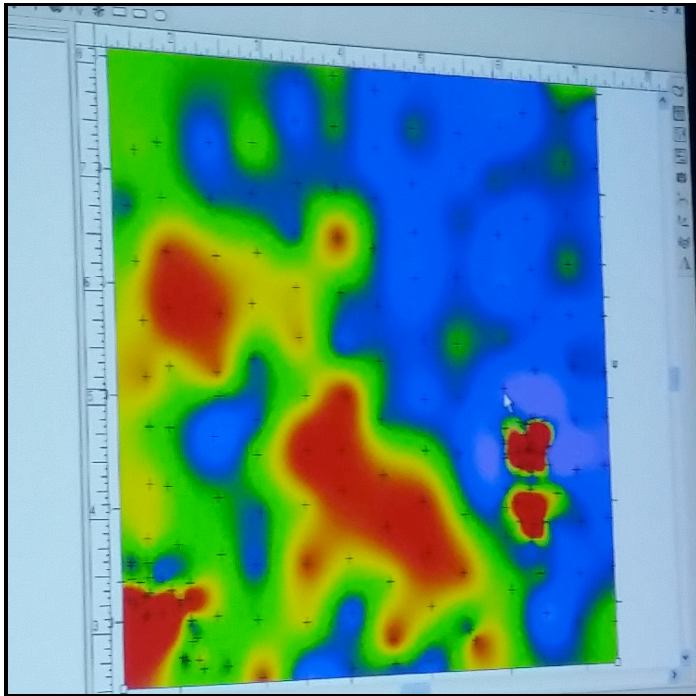


Image 1: Electrical conductivity results, with the red squares as potential house features. Image 2: Electrical conductivity survey.

**Workshop Overview:** The funds from the IndianaView scholarship purchased the ticket and covered the housing for my attendance of the 2017 NPS Geophysical workshop, which was from May 15-19 at the Pea Ridge Battlefield in Pea Ridge, AK. Fifteen instructors from across the globe provided lectures and supervised field survey with multiple geophysical methods.

**Site Context:** Surveys at Pea Ridge targeted the location of Leetown, which was founded in the 1840s by John W. Lee and consisted of fifteen to twenty log houses. In 1862, Leetown was converted into a hospital for the Confederate army (NPS 2015). After the battle, it was abandoned. The workshop surveyed the location of Leetown to potentially locate unmarked graves, remains of the Masonic Temple, house foundations, and the Civil War era road said to run through Leetown.

**Workshop Objectives:** There were five overall objectives for the workshop:

- Become familiar with recent advancements in archaeological prospection techniques, their operation, and their application to archaeological survey and research.

- Understand and appreciate the utility of advanced technological prospection techniques in the management of archaeological sites.
- Understand the strengths and limitations of each technique as applied to specific types of resources.
- Understand the inter-relationship of the techniques to complementary data bases
- Learn initial steps in processing and interpretation of data

**Results:** The participation of this workshop was to help further my own knowledge of geophysics for the benefit of my thesis and professional development in the field. While at the workshop, I was able to network with experts in the field, discuss thesis data with one of my committee members, and gain valuable knowledge of multiple survey methods.

### Reference:

NPS  
2015 Pea Ridge: Stop 3: Leetown. Accessed October 29, 2017. <https://www.nps.gov/peri/planyourvisit/leetown-tour-stop-2.htm>