

PROFESSIONAL DEVELOPMENT OPPORTUNITY
National Park Service
U.S. Department of Interior

MIDWEST ARCHEOLOGICAL CENTER

*Current Archeological Prospection Advances
for Non-destructive Investigations of the Pea Ridge
Civil War Battlefield*

May 15-19, 2017

LOCATION: Pea Ridge National Military Park, Benton County, Arkansas

DESCRIPTION: This workshop is designed to provide a practical application of geophysical equipment and aerial photographic techniques available for the identification, evaluation, and ultimately, the conservation and protection of cultural resources. The field exercises associated with the course will concentrate on the application of these techniques to archeological investigations. Instruction will be given in the use, processing, and interpretation of data from magnetometers, conductivity meters, resistivity meters, ground penetrating radar, metal detectors, and magnetic susceptibility instruments and their applications to non-destructive subsurface investigations. The major emphasis of the training will be on the field use of the equipment. Instruction will also be offered in the use of and interpretation of aerial photographic techniques, and in the use of low altitude large scale aerial reconnaissance.

Geophysical techniques provide a means of non-destructive investigations for archeological surveys. These techniques utilize physical principles to study the earth through indirect interpretation of the earth's physical properties. Geophysicists interpret the Earth's physical characteristics using physical, electrical, and/or chemical measurements. Active geophysical techniques are based on responses from an induced signal used to detect contrasts in different material properties. Such techniques include **electromagnetics (EM)**, **ground penetrating radar (GPR)**, **metal detectors**, **electrical resistivity**, and **seismic**. Passive techniques are based on responses from the natural conditions. These techniques include **magnetics**, **gravity**, and **self potential (SP)**. The course will provide an opportunity to learn about non-destructive geophysical techniques for archeological investigations including advantages and disadvantages of such techniques.

CO-SPONSORS: National Park Service: Pea Ridge National Military Park, Midwest Archeological Center, and National Center for Preservation Technology and Training; and Arkansas Archaeological Survey.

PARTICIPANTS: Federal, State, and Local governmental cultural resource managers and specialists (i.e., archeologists, historians, architects, and contracting personnel) as well as private contractors, university professors and students, and international cultural resource personnel, with specific responsibilities concerning the identification, evaluation, conservation, protection, and management of archeological and other cultural resources across the nation. **Due to limitations of space, participation in the workshop is limited to 50 participants.**

POTENTIAL INSTRUCTORS: Course instructors in the past have included Dr. Lewis Somers, Geoscan Research USA; Dr. Jarrod Burks, Ohio Valley Archaeology, Inc.; Dr. Kris Lockyear, University College London; Dr. Rinita Dalan, Minnesota State University-Moorhead; Dr. Dean Goodman, Geophysical Archaeometry Laboratory, Dr. Tommy Hailey, Northwestern State University; Dr. Douglas Scott (retired), Midwest Archeological Center; Dr. Kenneth Kvamme, University of Arkansas; Mr. David Wilbourn, DW Consulting; and Dr. Rory Becker, Eastern Oregon University .

COURSE DATES: The workshop is planned for May 15-10, 2017. Additional information on the workshop and lodging is available from the National Park Service (Steven De Vore, Course Coordinator--phone: (402) 437-5392, ext. 141). Information on lodging and meeting room has not been identified yet although we will be staying in Rogers, Arkansas. More information will be available soon. Field exercises will be at the Pea Ridge National Military Park in Benton County, Arkansas. The site consists of the March 7th and 8th, 1882 Civil War battle between Federal and Confederate troops in northwestern Arkansas. The resulting Federal victory helped maintain the State of Missouri in the Union during the war.

APPLICATION: There is a \$475.00 charge for course registration. Lodging and meals will be the responsibility of the participant. Non-Government personnel complete the attached nomination form to the National Park Service, Midwest Archeological Center, ATTN: Steven De Vore, Federal Building, Room 474, 100 Centennial Mall North, Lincoln, Nebraska 68508-3873. Credit card payment will be made through the Friends of the National Center for Preservation Technology and Training through PayPal. Federal personnel complete the attached nomination form and send to the address mentioned above. Please submit a 10-part SF-182 Training Form through your local Training Office or a check/money order made out to the National Park Service and send to the Midwest Archeological Center address mentioned above. All registration forms must be in by **COB April 17, 2017**. Participants will be notified by May 1, 2017, as to their acceptance to the workshop. Questions should be directed to Steven De Vore at (402) 437-5392, ext. 141).

APPLICATION FORM



Send form to National Park Service, Midwest Archeological Center, ATTN: Steven De Vore,
Federal Building, Room 474, 100 Centennial Mall North, Lincoln, Nebraska 68508-3873.

Name: _____ **PHONE:** _____

Address: _____

Email: _____

City: _____ **State:** _____ **Zip:** _____

Title/Position: _____

Course Title: Current Archeological Prospection Advances for Non-destructive
Investigations of the Pea Ridge Civil War Battlefield

Course Dates: May 15-19, 2017

(see back)

WHY I FEEL THE TRAINING IS BENEFICIAL TO ME (AND TO THE GOVERNMENT/ORGANIZATION):

WHY THE SUPERVISOR FEELS THE TRAINING IS BENEFICIAL TO THE EMPLOYEE (AND THE GOVERNMENT/ORGANIZATION) IN THE PERFORMANCE OF HIS/HER JOB:

Immediate Supervisor

Date