

# Timothy J. Horsley, Ph.D.

518 Park Avenue, DeKalb, IL 60115. USA  
Phone: (443) 804-6101 Email: timhorsley@gmail.com

## *Education*

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### **Department of Archaeological Sciences, University of Bradford, UK**

PhD in Archaeological Prospection, 2005

*The potential of geophysical prospection techniques for archaeological field evaluation in Iceland*

MSc Archaeological Prospection, 1999 (with Distinction)

BSc (Hons) Archaeological Sciences, 1998 (First Class Honors)

## *Professional experience*

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### 2008 to date **Horsley Archaeological Prospection, LLC**

Managing Director of this small business, providing geophysical surveys, training, research, and consultancy to the public and private sectors. Projects include:

- Providing in-depth workshops and field training in archaeological geophysics to various institutions and organizations in the US, UK, China, and Peru;
- Undertaking research investigations for National, State, and County Parks, DNRs, and universities;
- >200 commercial investigations of archaeological sites and burial grounds for State Authorities, townships, tribes, churches, and private companies throughout Central and Eastern United States;
- Assisting law enforcement agencies with non-invasive investigations.

### 2013 to date **Department of Anthropology, Northern Illinois University – Adjunct Assistant Professor**

### 2011 to 2013 **Department of Anthropology, Yale University – Visiting Lecturer; Associate Research Scientist**

- Invited to teach the graduate archaeological prospection course, *Advanced Subsurface Remote Sensing*.
- Taught module of the undergraduate course, *Introduction to Archaeological Laboratory Courses*
- Assisted graduate students with research methodologies and survey strategies.

### 2007 to 2012 **University of Michigan Museum of Anthropology – Assistant Research Scientist**

#### 2010 **Dept. of Archaeology, Orkney College, University of Highlands & Islands - Visiting Lecturer**

- Invited to teach the graduate course, *Data processing, interpretation and display*, in the new MSc course in Environmental Geophysics.

#### 2008-09 **Department of Anthropology, University of Notre Dame - Visiting Scholar**

#### 2007 **Department of Archaeological Sciences, University of Bradford, UK - Visiting Lecturer**

- Course Manager for the graduate MSc degree, *Archaeological Prospection*;
- Module coordinator and lecturer for graduate and undergraduate courses;
- Graduate and undergraduate dissertation supervisor and examiner.

#### 2005 to 2007 **Temporary positions with CRM companies and academic institutions in the US and UK**

- Field Assistant undertaking various Phase I assessments (IN, MD, MI);
- Director of Geophysical Surveys for Phase I & II assessments and research projects (US & UK).

#### 2000 to 2004 **Dept. of Archaeological Sciences, University of Bradford, UK – Teaching Assistant and Lecturer**

- Module Coordinator & Lecturer for the MSc Archaeological Prospection course, *Electrical Methods*;
- Provided lectures and practical geophysical sessions for the MSc course, *Forensic Anthropology*;
- Various teaching assistant positions in survey and lab sessions.

#### 1996-7, 1998 **Ancient Monuments Laboratory (English Heritage), London, UK**

- *Archaeological Scientist* with the Technology Branch (1996-7), and *Archaeological Geophysicist* with the Archaeometry Branch (1997, 1998), during a 12-month internship and subsequent employment.

## *Publications and book chapters*

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- Rankin, C., Barrier, C.R. and **Horsley, T.J.** (2021). *Evaluating Narratives of Ecocide with the Stratigraphic Record at Cabokia Mounds State Historic Site, Illinois, USA*. *Geoarchaeology* **2021**:1-19.
- Perry Sampson, C. and **Horsley, T.J.** (2020). Using Multistaged Magnetic Survey and Excavation to Assess Community Settlement Organization: A Case Study from the Central Peninsular Gulf Coast of Florida. *Advances in Archaeological Practice*, **8**(1): 53-64.
- Lane, M.F., Aravantinos, V.L., **Horsley, T.J.** and Charami, A. (2020). The AROURA Project: Discoveries in Central Greece, 2010-2014. *Hesperia: The Journal of the American School of Classical Studies at Athens*, **89**(3):413-474.
- Stone, D. **Horsley, T.**, Alexakis, N., Tsimousas, M. (2019). Geophysical and Field Survey at Olynthos, 2014. *To Αρχαιολογικό Έργο στη Μακεδονία και στη Θράκη (Archaeological Work in Macedonia and Thrace)*, **28** (2014): 591-596.
- Wright, A.P. and **Horsley, T.J.** (2019). What surrounds Connestee Mounds? Insights from magnetometer survey at Biltmore Mound (31BN174), Buncombe County, North Carolina. *North Carolina Archaeology*, **68**.
- Womack, A., **Horsley, T.J.**, Hui Wang, Jing Zhou, & Flad, R. (2019). Assessing site organization and development using geophysical prospection at Dayatou, Gansu, China. *Journal of Archaeological Science: Reports*, **27**.
- Beck, R.A., Moore, D.G., Rodning, C.B., **Horsley, T.J.**, and Sherwood, S.C. (2018). A road to Zacatecas: Fort San Juan and the defenses of Spanish La Florida. *American Antiquity*, **83**(4): 577-597.
- Millhouse, P.G., **Horsley, T.**, and Drane, L. (2017). The Mississippian Frontier along the Apple River. *Illinois Archaeology*, **29**: 231-252.
- Nevett, L.C., Tsigarida, E.B., Archibald, Z.H., Stone, D.L., **Horsley, T.J.**, Ault, B.A., Panti, A., Lynch, K.M., Pethen, H., Stallibrass, S.M., Salminen, E., Gaffney, C., Sparrow, T.J., Taylor, S., Manousakis, J., Zekkos, D. (2017) Towards a multi-scalar, multidisciplinary approach to the Classical Greek city: The Olynthos Project *Annual of the British School at Athens*, 1-52.
- Lane, M.F., **Horsley, T.J.**, Charami, A., and Bittner, W. (2016). Archaeological geophysics of a Bronze Age agricultural landscape: the AROURA Project, central mainland Greece. *Journal of Field Archaeology*, **41**(3):271-296.
- Horsley, T.J.** (2015). The use of geophysical survey in archaeology. In *Emerging Trends in the Social and Behavioral Sciences: An Interdisciplinary, Searchable, and Linkable Resource*. R.A. Scott & S.M. Kosslyn (Eds.). Published online by John Wiley & Sons, Inc.
- Horsley, T.J.**, Wright, A.P. and Barrier, C.R. (2014). Prospecting for new questions: Integrating geophysics to define anthropological research objectives and inform excavation strategies at monumental sites. *Archaeological Prospection*, **21**(1):75-86.
- Barrier, C.R. and **Horsley, T.J.** (2014). Shifting Communities: Demographic Profiles of Early Village Population Growth-and-Decline in the Central American Bottom. *American Antiquity*, **79**(2): 295-313.
- Armit, I., **Horsley, T.**, Gaffney, C., Marty, F., Thomas, N., Friel, R., and Hayes, A. (2014). Exploring urbanisation in the southern French Iron Age through integrated geophysical and topographic prospection. In Fernandez-Gotz, M., Wendling, H., and Winger, K. (Eds.) *Paths to complexity – centralisation and urbanisation in Iron Age Europe*. Oxford: Oxbow. 167-178.
- Schmidt, A., Gaffney, C., and **Horsley, T.** (2014). Geophysical investigations at Gristhorpe 2006-2008. In *Gristhorpe Man: A Life and Death in the Bronze Age*. N. Melton, J. Montgomery and C. Knusel (Eds.) Oxbow Books, Oxford: 68-78.
- Flad, R.K., **Horsley, T.J.**, D’Alpoim Guedes, J., He, K., Bennett, G., Chen, P., Li, S., and Jiang, Zh. (2013). Survey, Excavation and Geophysics at Songjiaheba – A Small Bronze Age Site in the Chengdu Plain. *Asian Perspectives*, **52**(1): 119-144.
- Peterson, S.D., Strezewski, M.S. and **Horsley, T.J.** (2011). Lincoln’s Boyhood Landscape – Archaeology Education Project, Spencer County, Indiana. *Indiana Archaeology* **6**(1): 90-120.
- Melton, N., J. Montgomery, C. J. Knusel, C. Batt, S. Needham, M. P. Pearson, A. Sheridan, C. Heron, **T. Horsley**, A. Schmidt, A. Evans, E. Carter, H. Edwards, M. Hargreaves, R. Janaway, N. Lynnerup, P. Northover, S. O’Connor, A. Ogden, T. Taylor, V. Wastling & A. Wilson (2010). Gristhorpe Man: an Early Bronze Age log-coffin burial scientifically defined. *Antiquity* **84**(325): 796–815.

- Horsley, T.J.** (2009). *Diqiu wuli jishu zai Zhongguo Sichuan Chengdu Pingyuan kaogu gongzuo zhong de yingyong* 2006 nian 12 yue - 2007 nian 1 yue 地球物理技术在中国四川成都平原考古工作中的应用 2006年12月 - 2007年1月 (The utility of geophysical techniques in China based on archaeological research in the Chengdu Plain, Sichuan - Dec. 2006 - Jan. 2007). *Nanfang minzu kaogu* 南方民族考古 [*Southern Ethnoarchaeology*].
- Horsley, T.J.** (2004). The use of geophysical techniques for archaeological investigations. In Larsen, J.H. and Rolfsen, P. (Eds.) *Halvdansbaugen – Arkeologi, Historie og Naturvitenskap*. University Museum of Cultural Heritage, Occasional Papers Vol. 3: 341-352. University of Oslo.
- David, A., Cole, M., **Horsley, T.J.**, Linford, N., Linford, P. and Martin, L. (2004). A rival to Stonehenge? Geophysical survey at Stanton Drew, England. *Antiquity*, 78(300): 341-358.

### ***Research grants, fellowships & awards***

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- Archaeological Institute of America – St. Louis Society - *Determining the Extent and Internal Organization of the Pulcher Site, Cabokia's Largest, Undisturbed Mound-Town Neighbor*. Co-PI. \$6,400 (2019); \$7,500 (2018).
- Archaeological Society of Maryland / National Park Service Hurricane Sandy Disaster Relief Fund / Maryland Historical Society – *Geophysical Archaeological Services to Examine the Lower Brambly (Secowocomoco) Site (18ST51), St. Mary's County, MD*. PI. \$10,000 (2017).
- NGS/Waite Foundation – *The Founding of First Cities: Mapping Urban Transformations at Early Cabokia and the Regional Pulcher Mound-Town*. Co-PI with Dr. C. Barrier, Bryn Mawr College. \$20,003 (2016).
- NGS/Waite Foundation – *A Buried Community: Magnetometry Mapping of a Pre-Inka village in Cusco, Peru (400-100 BC)*. Proposal co-written with PI, Dr. A. Davis, Brown University. \$17,000 (2011).
- Maryland Historical Trust – *Remote Sensing Archaeological Survey of Western Maryland Landscapes*. Co-PI with Dr. R. Wall, Towson University. \$29,000 (2008-2010).
- University of Michigan Archaeological Research Fund. \$2,000 (2008).
- National Environmental Research Council Ph.D. studentship (2000-2004); MSc studentship (1998-1999).

### ***Professional affiliations and activities***

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- Society for American Archaeology
- Southeastern Archaeology Conference
- International Society for Archaeological Prospection
- Reviewer for *Archaeological Prospection*, and NGS/Waite Foundation grant proposals
- Illinois Archaeological Survey
- Middle Atlantic Archaeology Conference
- Society for Historic Archaeology

### ***Relevant geophysical survey experience (by region)***

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**USA: Mid-Atlantic States** (DE, MD, NJ, PA, VA, WV & DC)

**Mt. Nebo Historic Church and Cemetery, MD.** *Geophysical Consultant*. GPR (GSSI UtilityScan) survey to map burials within this historic African-American cemetery. For the Friends of Historic Mt. Nebo . March 2021.

**Manassas Battlefield, VA.** *Geophysical Consultant*. GPR (UtilityScan) and magnetometry (Bartington Grad601-2) surveys to locate and characterize remains of historic structures and associated features. For WSP. 2020-2021.

**Central State Hospital, Petersburg, VA.** *Geophysical Consultant*. GPR surveys (GSSI UtilityScan; 200HS system) and magnetometry (Bartington Grad601-2) to locate and characterize a range of cultural features, including Civil War earthworks and burials within a 6-acre, unmarked former asylum cemetery. For The Ottery Group, Inc. 2020

**Penns Neck Cemetery, West Windsor, NJ.** *Geophysical Consultant*. GPR surveys (ImpulseRadar CrossOver 1760; UtilityScan; GSSI SIR3000 & 200 MHz) to locate unmarked burials and cultural remains associated with this historic cemetery. For The Ottery Group, Inc. and Princeton University. July 2020.

**Newtowne Neck State Park, MD.** *Geophysical Consultant*. Magnetometer (Grad601-2) and GPR survey (GSSI UtilityScan) to locate cultural remains associated with prehistoric and historic settlements. For Maryland State Highways Administration. March 2020.

- Thompson Park, Monroe Township, NJ.** *Geophysical Consultant.* Magnetometer (*Bartington* Grad601-2) and GPR survey (*GSSI* UtilityScan) to locate cultural remains associated with the historic settlement. For Middlesex County. January 2020; October 2019.
- Randolph Friends Meeting House Cemetery, Morris Co., NJ.** *Geophysical Consultant.* GPR survey (UtilityScan) to locate and map burials in advance of proposed improvements. For Hunter Research, Inc. January 2020.
- Metlar-Bodine House, Piscataway, NJ.** *Geophysical Consultant.* GPR survey (UtilityScan) to locate and map buried cultural remains associated with this historic property. For Hunter Research, Inc. October 2019.
- Fort Reno, Washington D.C.** *Geophysical Consultant.* GPR survey (UtilityScan) to locate and map buried cultural remains associated with the historic Reno City. For The Louis Berger Group and NPS. October 2019.
- Ridgley Church Cemetery, Landover, MD.** *Geophysical Consultant.* GPR survey (UtilityScan) to map marked and unmarked burials in this historic cemetery. For M-NCPPC. October 2019.
- St. Mary's City, St. Mary's County, MD.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2) and GPR (UtilityScan) surveys to evaluate the potential for buried cultural resources. For HSMC. July 2019.
- Bright Family Cemetery, City of Chesapeake, VA.** *Geophysical Consultant.* High resolution GPR (UtilityScan) survey to map unmarked burials at this historic property. For RK&K. June 2019.
- Hastings Site, VA.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2) and GPR (UtilityScan) surveys to help locate features and characterize this early historic site. For St. Mary's College. June 2019.
- Zabriskie-Schedler House, Bergen County, NJ.** *Geophysical Consultant.* High resolution GPR (UtilityScan) survey to map buried features around this 19<sup>th</sup> century dwelling. For Hunter Research, Inc. May 2019.
- Port Tobacco Historic Village, Charles County, MD.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2) and GPR (UtilityScan) surveys to map buried structures and features associated with this important historic settlement. For the Charles County Department of Planning and Growth Management. February 2019.
- Williamsport, MD.** *Geophysical Consultant.* High resolution GPR (UtilityScan) survey to map unmarked burials at this historic property. For The Louis Berger Group. Jan.-Feb. 2019.
- St. Mary's City, St. Mary's County, MD.** *Geophysical Consultant.* Large-scale magnetic susceptibility (*Bartington* MS2), magnetometer (Grad601-2) and GPR (UtilityScan) surveys to map cultural remains associated with the early English settlement. For Historic St. Mary's City. June-Dec. 2018.
- Rippon Lodge Cemetery, Prince William County, VA.** *Geophysical Consultant.* High resolution GPR (UtilityScan) survey to map unmarked burials at this historic property. October 2018.
- Washington Monumental Cemetery, South River, NJ.** *Geophysical Consultant.* High resolution GPR (UtilityScan) surveys to locate and map potential unmarked burials associated with the Spanish Influenza. October 2018.
- Old School Baptist Church Cemetery, South River, NJ.** *Geophysical Consultant.* High resolution GPR (UtilityScan) surveys to map burials in this historic burial ground. October 2018.
- Chancellor's Point, St. Mary's County, MD.** *Geophysical Consultant.* High resolution GPR (UtilityScan) survey to evaluate the potential for buried cultural resources. For Historic St. Mary's City. September 2018.
- Cloverfields, Queen Anne's County, MD.** *Geophysical Consultant.* Large-scale, high resolution magnetometer (Grad601-2) and GPR (UtilityScan) surveys to locate and map buried remains and garden features associated with this colonial plantation. For AAHA, Inc. Jan. & March 2018; Jan. 2019.
- Blackwater Presbyterian Church Cemetery, DE.** *Geophysical Consultant.* GPR survey (MALA GX system) to map marked and unmarked burials in this historic cemetery. For Edward Otter, Inc. December 2017.
- Cresaptown, MD.** *Geophysical Consultant.* GPR survey (*GSSI* SIR-3000) to map marked and unmarked burials in this historic cemetery. For RK&K and MD-SHA. November 2017.
- Macedonia Baptist Church, Bryans Road, Charles County, MD.** *Geophysical Consultant.* GPR survey (*GSSI* SIR-3000) to map marked and unmarked burials in this historic cemetery. For the church trustees. November 2017.
- Whitemarsh, Isle of White County, VA.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (*GSSI* SIR-3000), and magnetic susceptibility (*Bartington* MS2) surveys to locate and map buried remains associated with this colonial plantation site. For Wheatland Foundation, Inc. October 2017.
- Smithfield Cemetery, Smithfield, Isle of White County, VA.** *Geophysical Consultant.* GPR (SIR-3000) survey to map unmarked burials and define the extent of this historic cemetery. October 2017.
- Old Bergen Church Cemetery, Jersey City, NJ.** *Geophysical Consultant.* GPR (SIR-3000) surveys to locate and map burials in this early historic cemetery. For RGA, Inc. May 2017.

- Lower Brambly, Chaptico, St. Mary's Co., MD.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (SIR-3000), and magnetic susceptibility (MS2) surveys conducted over an extensive shell midden and possible site of Secowocomoco. Research project with St. Mary's College of Maryland. February 2017.
- Rich Hill, Bel Alton, Charles Co, MD.** *Geophysical Consultant.* Magnetometry (Grad601-2) and GPR (SIR-3000) surveys to map historic features associated with this historic farmhouse. For the Ottery Group, Inc. Jan. 2017.
- Snowden Manor, Spencerville, MD.** *Geophysical Consultant.* Magnetic susceptibility (MS2), magnetometry (Grad601-2) and GPR (SIR-3000) surveys to investigate a prehistoric quartz procurement site. For The Ottery Group and Maryland State Highway Administration (SHA). September 2016.
- Bush Tavern and Stone Chimney House, Bushtown, MD.** *Geophysical Consultant.* Magnetometry (Grad601-2) and GPR (SIR-3000) surveys to locate and map historic features. For RK&K and SHA. August 2016.
- Barbara's Freehold, St. Mary's City, MD.** *Geophysical Consultant.* Magnetic susceptibility (MS2), magnetometry (Grad601-2) and GPR (SIR-3000) surveys to map and locate buried cultural resources in advance of Phase II investigation. For St. Mary's College of Maryland. June-Aug. 2016.
- County Route 3 Project - Tennent Cemetery, Manalapan Township, NJ.** *Geophysical Consultant.* GPR (SIR-3000) survey to investigate potential unmarked burials. For Richard Grubb & Associates, Inc. June 2016.
- The Dr. James Still Historic Office and Homestead, Medford, NJ.** *Geophysical Consultant.* GPR (SIR-3000), magnetometer (*Bartington* Grad601-2), and earth resistance (*Geoscan* RM15) surveys to map structures and features associated with this 19<sup>th</sup> century Still family occupation of this important historic site. May 2016.
- The Yards, Parcel P2B, Washington D.C.** *Geophysical Consultant.* GPR (SIR-3000 + 200MHz antenna) survey to attempt to map a buried historic wharf on the Anacostia River. For the Louis Berger Group. February 2016.
- Addison Cemetery, National Harbor, MD.** *Geophysical Consultant.* GPR (SIR-3000) and earth resistance (RM15) survey to map burials and define the extent of this cemetery. For developer. October-November 2014.
- Compton Bassett, Upper Marlboro, MD.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to investigate the 18<sup>th</sup>-19<sup>th</sup> century landscape associated with this historic property. For The Ottery Group and M-NCPPC. October 2014.
- New Vernon First Presbyterian Church, NJ.** *Geophysical Consultant.* GPR (SIR-3000) survey to map burials in advance of building stabilization and drainage improvements. For Richard Grubb & Associates. October 2014.
- Hayden Farm, Leonardtown, MD.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to investigate a potential historic burial ground in advance of development. For TRC. Sept.-Oct. 2014.
- Princeton Battlefield, NJ.** *Geophysical Consultant.* Magnetometer (Grad601-2), conductivity (*Geonics* EM38), and GPR (SIR-3000) surveys to investigate 7.5 acres at the Institute of Advanced Study (IAS). For The Ottery Group and IAS. July 2014.
- Gloucester Point, Gloucester Co., VA.** *Geophysical Consultant.* GPR (SIR-3000) surveys to investigate areas of this colonial town under the modern campus of the Virginia Institute of Marine Science (VIMS). For The Ottery Group and VIMS. July 2014.
- Notley Hall, St. Mary's Co., MD.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (SIR-3000), earth resistance (*Geoscan* RM15) and magnetic susceptibility (MS2) surveys conducted over the site of this important colonial home. Ongoing research project with Julie King, St. Mary's College, MD. December 2013; April 2014.
- The Clifton site, St. Mary's Co., MD.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (SIR-3000), and magnetic susceptibility (MS2) surveys conducted over the site of this 18<sup>th</sup> century homestead. Ongoing research project with Julie King, St. Mary's College, MD. Dec. 2013; April 2014.
- Friendship Farm Park/The Juhle site, Charles Co., MD.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (MALÅ Ramac), and magnetic susceptibility (*Bartington* MS2) surveys undertaken investigate this prehistoric ossuary site. Up to 12 new ossuaries were located and the extent of occupation defined. For Charles County Division of Parks and Grounds. Oct. 2013; Dec. 2013; March 2014.
- Patterson Park, Baltimore, MD.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (SIR-3000), and earth resistance (RM15) surveys to map remains associated with the War of 1812 camp and city defenses. For The Louis Berger Group. March 2014.
- Zekiah Fort, Charles Co., MD.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2), GPR (MALÅ Ramac), and MS (MS2) surveys to map this 18<sup>th</sup> century Piscataway fort. Oct.-Dec. 2013.
- New Market, Frederick Co., MD.** *Geophysical Consultant.* GPR (SIR-3000) surveys to investigate open lots in this historic neighborhood in advance of excavation. For the Maryland State Highway Administration. Aug. 2013.

- Point Breeze, NJ.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2), GPR (Noggin), and earth resistance (RM15) surveys to map the remains of Joseph Bonaparte's early 19<sup>th</sup> century mansion. For Richard Veit, University of Monmouth. May 2012; May 2013.
- Mount Calvert, Prince George's Co., MD.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2), GPR (*Sensors & Software* Noggin), and magnetic susceptibility (MS2) surveys to locate structural features at this early town and 19<sup>th</sup> century plantation. For M-NCPPC. April 2013; October 2013.
- Nottingham, Prince George's Co., MD.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (Noggin) surveys to map remains associated with the town and 1814 British Encampment. For M-NCPPC. March 2013.
- Garrison Energy Site, Dover, DE.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (Noggin) surveys to investigate a small historic farmstead, unexpectedly revealing an earlier prehistoric component. For Richard Grubb & Associates. February 2013.
- Hokessin Cemetery, DE.** *Geophysical Consultant.* GPR (Noggin) survey to map the extent of burials at this historic burial ground. For Richard Grubb & Associates. December 2012.
- Benedict, Prince Georges Co., MD.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2), GPR (Noggin) surveys to map remains associated with a Civil War training camp (Camp Stanton), a 17<sup>th</sup> century domestic site, and an African-American burial ground. For The Ottery Group and MD SHA. Oct. & Dec. 2012.
- Langley Fork Park, VA.** *Geophysical Consultant* Magnetic susceptibility (MS2) and magnetometer surveys to attempt to map features associated with quartz production sites. For The Louis Berger Group. September 2012.
- Mount Family Cemetery, Prince William Co. VA.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (Noggin) to define the extent of this historic cemetery to aid fence location. For PB Americas. September 2012.
- Cedar Grove Cemetery, NJ.** *Geophysical Consultant.* GPR survey (Noggin) to map burials in advance of electrical tower improvements. For Richard Grubb & Associates. June 2012.
- Smith's St. Leonard Site, Calvert Co., MD.** *Geophysical Consultant.* GPR (Noggin), magnetometer (Grad601-2), and magnetic susceptibility (MS2) surveys to map features associated with this 18<sup>th</sup> century plantation. For the Jefferson Patterson Park & Museum. February 2012.
- Dale Historic site, DE.** *Geophysical Consultant.* Magnetometer survey (Grad601-2) to delineate historic resources in advance of excavation. For The Louis Berger Group. August 2011.
- Bird-Houston site, DE.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (MALÅ ProEx) surveys to delineate historic resources in advance of excavation. For The Louis Berger Group. April 2011.
- Hopkins Bayview, Baltimore, MD.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to identify burials associated with an earlier asylum that occupied the Bayview Campus. For PB Americas. May-June 2010.
- Shawnee Oldfields (18AG20), Oldtown, MD.** *Geophysical Consultant.* Magnetometer survey (Grad601-2) to map these enclosed Late Woodland villages managed by the National Park Service. For The Louis Berger Group. May 2010.
- The Koubeck Site / MD-328, MD.** *Geophysical Consultant.* Magnetometer (Grad601) and GPR (SIR-3000) surveys to attempt to locate prehistoric ossuaries and a historic cannery site. For MD SHA. July 2009.
- The Barton Site and adjacent landscapes, Allegany Co., MD.** *Principle Investigator.* High resolution magnetometer surveys (Grad601-2) defining multiple new Late Woodland villages at this 12-hectare, Archaeological Conservancy-owned property. For the Maryland Historical Trust. March - May 2009.
- The Baker Cemetery, Black Oak, WV.** *Geophysical Consultant* Magnetometer (Grad601), GPR (Ramac) and earth resistance (RM15) surveys to map burials and define the extent of this historic burial ground. For private landowner. May 2008.
- Fort Germanna/The Enchanted Castle, Spotsylvania, and domestic sites in Fredericksburg, VA.** *Geophysical Consultant and Trainer.* Earth resistance surveys conducted as part of a training exercise for students from University of Mary Washington. April 2007.
- Camp Letterman Union Field Hospital, Gettysburg, PA.** *Geophysical Consultant.* Magnetometer survey (*Geometrics* G-858 cesium gradiometer) over this American Civil War site. For EAC/Archaeology. November 2005.

**USA: Northeast (NY, VT, NH, ME, MA, CT, RI)**

- Clermont State Historic Site, Columbia Co., NY.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to investigate this 17<sup>th</sup>-20<sup>th</sup> century property and historic cemetery. For The New York State Parks, Recreation & Historic Preservation. August 2017.
- The Van Schaick Mansion and Cemetery, Cohoes, NY.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to investigate this 17<sup>th</sup>-20<sup>th</sup> century property and historic cemetery. For The New York State Museum. October 2016.
- The Schuyler Flatts Cultural Park and Nicoll-Sill House, Albany, NY.** *Geophysical Consultant.* Magnetometer (Grad601-2) and GPR (SIR-3000) surveys to investigate these 17<sup>th</sup>-19<sup>th</sup> century properties. For The New York State Museum. September 2015.
- Rossville A.M.E. Zion Church Cemetery, Staten Island, NY.** *Geophysical Consultant.* GPR (GSSI SIR-3000) survey to map unmarked burials to assist with cemetery restoration. For Jablonski Building Conservation, Inc. and the New York Landmarks Conservancy. June 2015.
- Religious Society of Friends' Burial Ground, Flushing, Queens, NY.** *Geophysical Consultant.* GPR survey (Noggin) to map graves in this historic cemetery. For Historical Perspectives, Inc. July 2012.
- Chappaquiddick Cemetery, Martha's Vineyard, MA.** *PI and Grad Student Instructor.* Geophysical surveys conducted as part of Yale University graduate student training. For cemetery owners. October 2011.
- Smithfield Cemetery, RI.** *Geophysical Consultant.* GPR survey (*ProEx*) survey to map burials and define the extent of this historic cemetery. For The Louis Berger Group. March 2011.
- East Haven Chapel Cemetery, Essex Co., VT.** *Geophysical Consultant.* GPR survey (*ProEx*) survey to map burials and define the extent of this historic cemetery. For The Louis Berger Group and Vtrans. July 2010.

**USA: Southeast (NC, FL)**

- Green Acres Cemetery, Mooresville, NC.** *Geophysical Consultant.* GPR survey (UtilityScan) to locate and map burials at this historic African-American cemetery. For RGA, Inc. October 2020.
- Newbold-White House, NC.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (GSSI SIR-3000), and magnetic susceptibility (*Bartington* MS2) surveys to locate and map buried remains associated with this Quaker plantation site. April 2018.
- The Berry site, Morganton, NC.** *Geophysical Consultant.* Magnetometer (Grad601-2), GPR (SIR-3000), and earth resistance (RM15) surveys to map the site of the 1567 Spanish Fort San Juan and Native American settlement of Joara. Conducted as part of the ongoing research investigations by scholars from University of Michigan, Tulane University, Warren Wilson College, and the Exploring Joara Foundation. November 2014.
- Weedon Island, FL.** *Geophysical Consultant & Grad Student Mentor.* Magnetic susceptibility (*Bartington* MS2) and magnetometer (Grad601-2) surveys as part of a University of Michigan doctoral student project into Middle Woodland shell mounds. December 2014; November 2013.
- Cane River site, NC.** *Geophysical Consultant & Mentor.* Magnetic susceptibility (*Bartington* MS2), magnetometer (Grad601-2), and GPR (Noggin) surveys as part of a University of Michigan doctoral student project to investigate this Mississippian village in the Appalachians. May 2013.
- Garden Creek, NC.** *Geophysical Consultant & Mentor.* High resolution magnetometer (Grad601-2), GPR (Noggin), and magnetic susceptibility (*Bartington* MS2) surveys over this important Middle Woodland mound and village site, as part of a University of Michigan doctoral student's research project. Feb.-March 2012; April 2011.

**USA: East South Central (KY, TN, MS, AL)**

- Bashaw Cemetery, Nashville, TN.** *Geophysical Consultant.* GPR (UtilityScan) survey of this historic cemetery to map burials and define their extent. For TRC. March, 2020.
- Franklin Grove, Franklin, TN.** *Geophysical Consultant.* GPR (UtilityScan) surveys across portions of the grounds around this historic property. For CARDNO. November 2020.
- Cemetery, Sewanee, TN.** *Geophysical Consultant.* GPR (GSSI SIR-3000) surveys within the cemetery for The University of The South. October 2016.
- Site 15Fa176, Fayette, Co., KY.** *Geophysical Consultant.* Magnetometer survey (Grad601-2) over a Late Woodland village. Results were dominated by geological effects. For URS Corp. Oct.-Nov. 2011.





## *USA: Midwest (IL, IN & MI)*

- Old Union Cemetery, Indianapolis, IN.** *Geophysical Consultant.* GPR (GSSI SIR-3000) survey to map this 2.4-acre historic cemetery as part of a restoration project. For CARDNO. May 2020.
- Pulcher Site, Saint Clair & Monroe Counties, IL.** *Geophysical Consultant.* High-resolution magnetometer (*Bartington* Grad601-2) survey to map habitation features at this important mound town; 76-hectare topsoil magnetic susceptibility survey (*Bartington* MS2) and focused GPR surveys (*GSSI* UtilityScan) in 2018-2020.
- Whalen site, Jo Daviess Co., IL.** *Geophysical Consultant.* Magnetic susceptibility (MS2) and magnetometer (Grad601-2) survey to investigate this Woodland and Mississippian site to aid with management and prairie restoration. For Jo Daviess Conservation Foundation. May 2020; April 2019; August 2018; March 2016.
- Cahokia – Ramey Fields, Madison Co., IL.** *Geophysical Consultant.* High resolution magnetometer (Grad601-2) and GPR (SIR-3000) surveys to map early habitation features at this World Heritage Site as part of a research project to investigate early urbanization in the American Bottom. July 2016.
- Morton Village site, Fulton Co., IL.** *Geophysical Consultant & Researcher.* Magnetometer (Grad601-2) survey to investigate this Mississippian and Oneota site as part of an ongoing program of research by the Dickson Mounds Museum, IL and Michigan State University. April-May 2014; May 2010.
- Washausen Site, IL.** *Geophysical Consultant & Mentor.* 8-hectare (20-acre) magnetometer survey (Grad601-2) to investigate this early Mississippian site in advance of a Univ. of Michigan doctoral student project. Feb. 2011.
- Ohio River floodplain sites, IN.** *Geophysical Consultant.* High resolution magnetometer surveys (Grad601-2) at 17 locations in advance of a pipeline. Technical report submitted to URS Corporation. Dec. 2010 – March 2011.
- Mooney Cemetery, IL.** *Geophysical Consultant.* Ground-penetrating radar (MALÅ ProEx) to locate and map unmarked burials in this active historic cemetery. Report submitted to Moraine Township. Sept. – Oct. 2010.
- Lincoln State Park, IN.** *Director of Geophysics.* Magnetometer (Grad601-2) and earth resistance (*Geoscan* RM15) surveys over sites associated with Lincoln’s boyhood. Technical report submitted to IN-DNR. August 2009.
- St. Mary’s Cemetery, Burt Lake, MI.** *Director of Geophysics.* GPR (Ramac), magnetometer (Grad601) and earth resistance (RM15) surveys to map unmarked burials within this Native American cemetery for the Burt Lake Band of Ottawa and Chippewa Indians. May 2009.
- The Mann Site, IN.** *Geophysical Surveyor.* 40-hectare magnetometer survey (Grad601-2) to investigate this important Middle Woodland and Mississippian site. For Staffan Peterson, Indiana University. October-November 2006.

## *South America*

- Marcavalle, Cuzco, Peru.** *Geophysical Trainer & Consultant.* Oversaw GPR (*Sensors & Software* Noggin) surveys at this 3,000-year-old pre-Inca site as part of a training workshop. July 2013.
- Yuthu, Cusco, Peru.** *Director of Geophysics.* Magnetometer surveys (*Bartington* Grad601-2) to attempt to delineate and characterize features associated with this Early Formative site. January 2012.

## *Europe*

- Olynthos, Greece.** *Director of Geophysics.* Magnetometer (Grad601-2) and earth resistance (RM15) surveys to investigate the ground plan of this Classical Greek city and understand the internal use of space and households. With the University of Michigan. April 2016; February 2014.
- Kopaic Basin, Boiotia, Greece.** *Principle Geophysical Investigator.* Magnetometer surveys (Grad601-2) as part of the AROURA project - a multi-component investigation of Bronze Age agricultural remains. With UMBC. 2011; Oct.-Nov. 2010. See [www.umbc.edu/aroura/](http://www.umbc.edu/aroura/)
- Le Castellan, Istres, Bouches du Rhône, France.** *Director of Geophysics.* Overseeing and conducting magnetometer (FM256), resistance (FM15), and GPR (PulseEkko) surveys at this Iron Age oppidum with the University of Bradford. April 2007; April 2008.
- Malton Roman Fort, North Yorkshire, England.** *Director of Geophysics.* University of Bradford Field School. July-August 2007. Technical report submitted to English Heritage.
- Hellar, Landsveit, Rangárvallasýsla Iceland.** *Geophysical Consultant.* Magnetometer (FM36) and earth resistance (RM15) surveys over this Viking Age longhouse and farm. Technical report submitted to Fornleifavernd ríkisins [The National Heritage Agency of Iceland]. April 2005.

- Site of Judy's Cottage and 'Pleasure Gardens', Bradford, West Yorkshire, U.K.** *Geophysical Consultant.* Magnetometer (FM256) and earth resistance (RM15) surveys to map traces of formal gardens. Technical report submitted to The Friends of Judy Woods. February 2005.
- Undir Junkarinsflótti, Sandoy Faroe Islands.** *Geophysical Consultant.* Undertook earth resistance (RM15) measurements alongside a Leverhulme-funded research investigation of this Viking settlement. Technical report submitted to the North Atlantic Biocultural Organization. May 2004.
- Keddleston Hall, Derbyshire, England.** *Geophysical Surveyor.* Assisted in GPR and topographic surveys to locate voids under the lawn at this historic property. February & November 2003.
- St. Olav's Wall, Sarpsborg, Østfold Norway.** *Geophysical Consultant.* Geophysical surveys (FM36 and RM15) to locate the remains of this lost Viking fortification and associated settlement. November 2002.
- English Heritage.** 20+ geophysical surveys while working with English Heritage's Ancient Monuments Laboratory. Projects included: the large-scale *Wroxeter Roman City* magnetometer survey; the *Stonehenge Environs Project*; the *Iron Age Hillfort Project*; *Scarborough Castle*; the site of *Ellerton Priory*; the *Noak Hill kiln site*, and the exciting discovery of multiple concentric rings of postholes within the *Stanton Drew stone circle*. 1997-1998.

### *Middle East*

- Ghabristan, Qazvin Plain, Iran.** *Geophysical Surveyor.* Magnetometer survey (FM36) to investigate a Chalcolithic settlement and Iron Age cemetery with the University of Bradford. March 2004.

### *China*

- Tao River, Gansu Province, PRC.** *Geophysical Consultant.* Magnetometer surveys (*Bartington* Grad601-2) to map and characterize buried archaeological features as part of the Taohe River Archaeological Project. May-June 2015.
- Daling River Valley, Liaoning Province, PRC.** *Director of Geophysics.* Magnetometer surveys (Grad601-2) to delineate and characterize features associated with Hongshan period settlements. Technical report submitted to the University of Pittsburgh. May 2011. See [www.cadb.pitt.edu/daling/mag/index.html](http://www.cadb.pitt.edu/daling/mag/index.html)
- Chengdu Plain, Sichuan Province, PRC.** *Director of Geophysics.* Magnetometer surveys (*Bartington* Grad601-2) to define and characterize archaeological sites as part of the Chengdu Plain Archaeological Survey. Winters of 2010-11; 2009-10; 2008-9; 2006-7.

## *Selected presentations*

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- 2018 *Revealing Archaeological Sites using Geophysical Methods*. American Institute of Archaeology and the Missouri History Museum Lecture Series. St. Louis, MO. May 9.
- 2017 *New Views of Cahokia's Urban Landscape: Multi-Instrument Geophysical Survey at the Ramey Field*. Oral presentation at the SAA symposium: "New Insights into Mississippian Culture at Cahokia Mounds State Historic Site". Vancouver, Canada. March 30-April 2.
- 2016 *Integrating Archaeological Geophysics into Cultural Resource Management. Potentials, Pitfalls, and Best Practices*. Oral presentation at the symposium: "Exploring North Carolina's Archaeological Heritage through Remote Sensing and Geophysics". Raleigh, NC. March 12.
- 2016 *Going over Old Ground: developing effective geophysical survey methodologies for Maryland's archaeological sites*. Oral presentation at the Society for Historic Archaeology conference, Washington D.C. January 6-9.
- 2015 *The Use of Technology in Cultural Resource Mitigation for Transportation Projects*. Invited oral presentation at the TransAction conference, Ocean City, NJ. April 21-23.
- 2015 *Understanding settlement organization through geophysical survey at the Morton Village Site*. Poster presentation at the SAA symposium: "Negotiating Migration and Violence in the Pre-Columbian Mid-Continent". San Francisco, CA. April 15-18.
- 2014 *Prospecting for more than just features: Integrating geophysics into archaeological investigations to define and help answer new research questions*. Oral presentation at the SAA symposium: "Not just for Specialists: Applying Geophysics in Archaeology". Austin, TX. April 23-27.
- 2014 *Recent archaeological prospection in Maryland*. Keynote Speaker at the Maryland Historical Trust & Archaeological Society of Maryland Annual Workshop in Archeology. Crownsville, MD. March 22.
- 2013 *Geophysical data in archaeology: informing excavation strategies and defining new research questions*. Brown Bag presentation at Yale University. April 12.
- 2012 *The multiple uses of geophysical data in archaeology: informing excavation strategies and defining new research questions at monumental sites*. Oral presentation at the Southeastern Archaeology Conference, Baton Rouge, LA. Nov. 7-10.
- 2012 *Developing effective strategies for archaeological assessment of floodplains using non-invasive geophysical methods*. Oral presentation at the Middle Atlantic Archaeology Conference, Virginia Beach, VA. March 23-25.
- 2011 *A geophysical approach to understanding settlement organization: a case study at the Washausen site, IL*. Poster presentation at the Southeastern Archaeology Conference, Jacksonville, FL. Nov. 3-5.
- 2011 *Using geophysical techniques to reveal buried archaeological remains*. Invited lecture in the 2011 Archaeology Speaker Series at the Jefferson Patterson Park and Museum: State Museum of Archaeology. MD. July 21.
- 2010 *New remote sensing techniques in archeology*. Keynote Speaker at the Maryland Historical Trust & Archaeological Society of Maryland Annual Workshop in Archeology. Crownsville, MD. March 13.
- 2007 *Maximizing the interpretation of geophysical data. Case Study: The Mann Site*. Poster presentation at the Midwest Archaeological Conference, Notre Dame, IN. Oct. 4-6.
- 2006 *Integrating geophysical methods into archaeological investigations in the North Atlantic*. Oral and poster presentations at the NABO Conference "The View from Here. History & Ecology of the North Atlantic Region", Quebec City.
- 2005 *The potential of archaeological prospection techniques in Iceland*. Oral and poster presentations in the Archaeological Geophysics Sessions, AGU Joint Assembly Conference, New Orleans.
- 2003 *Archaeological prospection and Halvdanshaugen*. Invited presentation at the seminar "Halvdanshaugen/The Mound of Halvdan the Black". Hønefoss, Norway.
- 2003 *The potential of archaeological prospection in Iceland*. Invited presentation at Þjóðminjasafn Íslands/National Museum of Iceland, Reykjavík.
- 2001 *The use of geophysical methods for the archaeological prospection of medieval kilns*. Poster presentation at the 4th International Conference on Archaeological Prospection. Vienna, Austria.
- 2001 *A preliminary assessment of the use of routine geophysical techniques for the location, characterisation and interpretation of buried archaeology in Iceland*. Poster presentation of at the 21<sup>st</sup> Nordic Archaeology Conference in Akureyri, Iceland.