

We have been involved with many exciting geophysical discoveries in Ireland and abroad and regard publication and presentation of results as an important outcome of a project. LGS has an established record in publishing and presenting results in books, journals, magazines, field guides, websites, on video and in radio and TV programmes. We are happy to work with clients in assisting with publishing and presenting the results of surveys.

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## 1.0 PRESENTATIONS - ORAL & POSTERS

### 1.1 ORAL

Presenter(s) underlined

2018

**Barton, K.** 2018. *From above and below: inner secrets of Wallingford Castle's Inner Bailey?* Presented at June Meeting, Wallingford Historical & Archaeological Society, St Mary's Church, Wallingford, 13<sup>th</sup> June 2018.

**Barton, K.** 2018. *Community Archaeological Remote Sensing.* Paper presented at Annual Conference, Association of Young Irish Archaeologists, NUI, Galway, 22<sup>nd</sup> April 2018.

**Barton, K.**, Keats-Rohan, K., Latham, G. and Dewey, J. 2018. *Wallingford Castle, Oxfordshire, England; Community-based Remote Sensing Studies of the Inner Bailey*. Paper presented at Archaeology Above & Below 2018 Conference, Rathcroghan Visitor Centre, Tulsk, Co Roscommon, 15<sup>th</sup> April 2018.

**Barton, K.** and **Dowling, S.** 2018. *Round Hill: Topography, Photogrammetry and Geophysical Survey*. Paper presented at Archaeology Above & Below 2018 Conference, Rathcroghan Visitor Centre, Tulsk, Co Roscommon, 14<sup>th</sup> April 2018.

**Barton, K.** and **Callaghan, B.** 2018. *From the Bronze Age to the Middle-Age – What can we say about 3 sites in the Moybologue area so far?* Moybologue Historical Society, St. Mary's Hall, Tierworker, Co Meath, 6<sup>th</sup> April 2018.

**Barton, K.** 2018. *Community Geophysical Surveys with Reference to Teampaill Mhóire, Baile Bhiocáire, Dún Chaoin, Co. Chiarraí*. Presentation to Comharchumann Dhún Chaoin Teoranta, Ionad an Bhlascaoid Mhóir, Dún Chaoin, 21<sup>st</sup> March 2018.

**Barton, K.** 2018. *Drumgoon Hill Graveyard Conservation and Management Plan; Progress on Community Graveyard Mapping Survey and Headstone Recording – Update January 2018*. Community Presentation, Gallonray House, Cootehill, Co Cavan, 11<sup>th</sup> January 2018.

#### 2017

**Barton, K.** 2017. *Millmount Archaeological Remote Sensing (MARS) Project; Results from Geophysical Surveys at Millmount, Drogheda, Co Louth*. Old Drogheda Society, Drogheda Millmount Museum, 7<sup>th</sup> November 2017.

**Barton, K.** and Latham, G. 2017. *New views of LiDAR data for Wallingford Castle and Town using RVT open source software*. Conference 2017, Council for Independent Archaeology, Sharpe's Pottery Museum, Swadlincote, S. Derbyshire, England, 22<sup>nd</sup> October 2017.

**Barton, K.** 2017. *Moybologue - Geophysics in a Graveyard; Preliminary Results*. Heritage Week Event, Moybologue Historical Society, Bailieborough Library, Bailieborough, Co Cavan, 26<sup>th</sup> August 2017.

**Forde, L.** and **Barton, K.** 2017. *Drumgoon Hill Graveyard Conservation and Management Plan; Progress on Community Graveyard Mapping Survey and Headstone Recording*. Heritage Week Event, Gallonray House, Cootehill, Co Cavan, 26<sup>th</sup> August 2017.

**Barton, K.** 2017. *Rath Airthir Archaeology Survey; Progress Report*. Heritage Week Event, Talteann & Donaghpatrick Heritage Group, Gibstown Hall, Navan, Co Meath, 25<sup>th</sup> August 2017.

**Barton, K.** and **Dowling, S.** 2017. *Remote Sensing Surveys of Roundhill, Lismore, Co Waterford; Images and 3D models*. Heritage Week Event, Lismore Heritage Centre, Lismore, Co. Waterford, 21<sup>st</sup> August 2017

Wroniecki, P., Bulas, J., **Barton, K.**, Brejcha, R., Mesterházy, G., Krajňák, M. & Kušnirák, D. 2017. *Really ephemeral sites? Viewing the Lesser Poland loess landscapes through a non-invasive lens*. Paper presented at 'Finds in the Landscape; New Perspectives and Results from Archaeological Surveys, International Conference, LVR-Amt für Bodendenkmalpflege in Rheinland, Fritz Thyssen Stiftung, Cologne, Germany, 12<sup>th</sup> to 13<sup>th</sup> June 2017.

**Barton, K.**, Hesse, R. & Kokalj, Ž. 2017. *Rathcroghan; a View from Above*. Paper presented at Archaeology Above & Below Conference, Rathcroghan Visitor Centre, Tulsk, Co Roscommon, 9<sup>th</sup> April 2017.

Fahey, M. 2017. *Lismore Heritage Centre and the Round Hill Project*. **Barton, K.** Paper presented on behalf of M. Fahey at Archaeology Above & Below Conference, Rathcroghan Visitor Centre, Tulsk, Co Roscommon, 8<sup>th</sup> April 2017.

**Barton, K.** 2017. *Recording and Presenting Your Graveyard: Research, Maps and Documenting Plots and Headstones*. Moybologue Historical Society, St. Mary's Hall, Tierworker, Co Cavan, 7<sup>th</sup> February 2017.

**Barton, K.** 2017. *Study of Ancient Heritage sites in Dunlewey*. Forbairt Dhún Lúiche, Dunlewey, Co. Donegal, 6<sup>th</sup> February 2017

#### 2016

**Barton, K.** 2016. *Community Archaeological Remote Sensing*. Telltown & Donaghpatrick Heritage Group, Donaghpatrick Hall, Teltown, Co Meath, 9<sup>th</sup> November 2016.

**Barton, K.** 2016. *BARS & SARS; Some Archaeological Engagement with Schools in County Mayo, Ireland*. Education Department, Keltenwelt am Glauberg Museum, Glauberg, Germany, 31<sup>st</sup> August 2016.

**Barton, K.** 2016. *What have we found out about Gallowshill?* Heritage Week Public Presentation, Gallowshill, Dungarvan, Co Waterford, 28<sup>th</sup> August 2016.

**Barton, K.** 2016. *Topographical and Geophysical Survey of Cill Ghallagáin Mound; Progress Report*. Heritage Week Public Presentation, Comhar Dún Chaocháin Teo, Sean Scoil, Carrowteige, Co Mayo, 26<sup>th</sup> August 2016.

Curley, D. and **Barton, K.** 2016. *Exploring what lies beneath the earthworks of Dundonnell Castle*. Heritage Week Public Presentation, Taughmaconnell Community Centre, Taughmaconnell, Co Roscommon. 25<sup>th</sup> August 2016.

**Barton, K.** and Scott, F. 2016. *Investigation of Crannóg at Loughnanane, Co Roscommon; Progress Report*. Heritage Week Public Presentation, Hannon's Hotel, Roscommon Town, 23<sup>rd</sup> August 2016

**Barton, K.** and Dowling, S. 2016. *Roundhill Archaeological Research Project*. Heritage Week Public Presentation, Lismore Heritage Centre, Lismore, Co. Waterford, 20<sup>th</sup> August 2016.

**Barton, K.** and **Lawless, C.** 2016. *Schools Archaeological Remote Sensing (SARS) Project; Mayo Abbey and Parke National Schools, County Mayo*. Paper presented at Archaeology Above & Below Conference, Rathcroghan Visitor Centre, Tulsk, Co Roscommon, 17<sup>th</sup> April 2016.

2015

**Barton, K.** 2015. *Some applications of earth resistance survey in community, academic research and commercial projects*. Paper presented at Council for Independent Archaeology, Annual Conference, 'Resources and Techniques in Archaeology', East Dorset Antiquarian Society, Wimborne, Dorset, England, 19<sup>th</sup> September 2015.

**Barton, K.** 2015. *Community Archaeological Remote Sensing; Techniques used on Kilberry Amenity and Heritage Group Projects*. Heritage Week Public Presentation, Wilkinstown National School, Wilkinstown, Co Meath, 30<sup>th</sup> August 2015.

**Curley, D.** and **Barton, K.** 2015. *Dundonnell Castle; preliminary remote sensing results*. Heritage Week Public Presentation, Taughmaconnell Community Centre, Taughmaconnell, Co Roscommon. 28<sup>th</sup> August 2015.

**Barton, K.** and **Lawless, C.** 2015. *Community Archaeological Remote Sensing*. Heritage Week Public Presentation, National Museum of Ireland – Country Life, Turlough, Co Mayo, 28<sup>th</sup> August 2015.

**Barton, K.** 2015. *A Community Geophysical Survey of the Mound at Gallows Hill, Dungarvan, Co Waterford; some Results*. Public presentation, Waterford County Museum, Dungarvan, Co. Waterford, 21<sup>st</sup> August 2015.

**Barton, K.** and **Curley, D.** 2015 *Archaeological Remote Sensing; some Community Engagement in Ireland*. Paper presented at "Cultural Heritage Communities: Technologies and Challenges" 28<sup>th</sup> June 2015 workshop held at 7<sup>th</sup> International Conference on Communities & Technologies (C&T2015), University of Limerick, 27<sup>th</sup> to 30<sup>th</sup> June 2015.

**Barton, K.** 2015. *What does Gabriel Beranger's 'mound' at Howth represent?* Presentation to Resurrecting Monuments Project, St Doulagh's Church, Malahide, Dublin, 7<sup>th</sup> May 2015.

**Barton, K.** 2015. *How can archaeological remote sensing be used by schools and local community and heritage groups?* Paper presented at Archaeology Above & Below Conference, Rathcroghan Visitor Centre/Tulsk Inn, 11<sup>th</sup> & 12<sup>th</sup> April 2015.

**Barton, K.** 2015. *Using open source and low cost software to visualize photographs and LiDAR data from archaeological sites*. Paper presented at Archaeology Above & Below Conference, Rathcroghan Visitor Centre/Tulsk Inn, 11<sup>th</sup> & 12<sup>th</sup> April 2015.

**Barton, K.** 2015. *Community Geophysical Survey*. Presentation at Seminar on Community Archaeology, Heritage Council, Heritage Officers Meeting, Granville Hotel, Waterford City, 11<sup>th</sup> March 2015.

**Barton, K.**, Curley, D. and Walsh, T. 2015. *Above and Below; Community Engagement in Remote Sensing in Ireland*. Paper presented at ‘Sensing the Past; New Approaches to European Landscapes’ ArchaeoLandscapes Europe Final Conference 2015, Goethe University, Frankfurt, Germany, 24<sup>th</sup> to 26<sup>th</sup> February 2015.

2014

**Barton, K.**, Matthews, B. and Brady, C. 2014. *Recent Results from the Millmount Archaeological Remote Sensing (M.A.R.S.) Project*. Paper presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 29<sup>th</sup> November 2014.

**Brady, C. and Barton, K.** 2014. *Geophysical Survey in the Brú na Bóinne WHS; Construction of a GIS database*. Paper presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 29<sup>th</sup> November 2014.

**Kenny, J. and Barton, K.** 2014. *Kilberry, Co Meath, Ireland; Community Archaeology Above and Below*. Paper presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Cunningham Arms Hotel, Slane, Co Meath, 29<sup>th</sup> November 2014.

**Brady, C., Matthews, B. and Barton, K.** 2014. *Millmount Archaeological Remote Sensing Project; Current Results*. Paper presented to Old Drogheda Society, Drogheda Millmount Museum, 22<sup>nd</sup> October 2014.

**Barton, K. and Kenny, J.** 2014. *Kilberry, Co Meath, Ireland; Community Archaeology Above and Below*. Paper presented at Aerial Archaeology Research Group, International Conference, Woodquay Venue, Dublin, 24<sup>th</sup> to 26<sup>th</sup> September 2014.

**Brady, C. and Barton, K.** 2014. *Geophysical Survey in the Brú na Bóinne WHS*. Paper presented at Aerial Archaeology Research Group, International Conference, Woodquay Venue, Dublin, 24<sup>th</sup> to 26<sup>th</sup> September 2014.

**Barton, K. and Curley, D.** 2014. *Remote Sensing; some ArcLand Community Engagement in Ireland*. Presentation at ArchaeoLandscapes Europe, 5<sup>th</sup> Plenary Meeting, the Central Hotel, Dublin, 23<sup>rd</sup> September 2014.

**Barton, K.**, Walsh, T., Cooney, M. & Finlay, A. 2014. *Balla Archaeological Remote Sensing Project; an Innovative Transition Year Module*. Archaeology Above & Below Conference, Rathcroghan Visitor Centre/Tulsk Inn, 5<sup>th</sup> & 6<sup>th</sup> April 2014.

2013

**Hesse, R. and Barton, K.** 2013. *What’s in a hole? Detecting and interpreting small topographic depressions in lidar-based high resolution elevation models*. Aerial Archaeology Research Group, International Conference, ‘The Past and Present from Above’, Cultural Heritage Agency of the Netherlands, Amersfoort, the Netherlands, 26<sup>th</sup> September 2013.

**Barton, K.**, Cowman, D. and Többe, K. 2013. *The Archaeology of the Copper Coast and the Tankardstown Copper Mine, Co Waterford, Ireland*. Council for Independent Archaeology, Annual Conference, ‘Remembering Mick Aston’, Shipham Village Hall, Shipham, Somerset, England, 21<sup>st</sup> September 2013.

**Barton, K.** and Brady, C. 2013. *The Search for Amhairgin; Millmount Archaeological Remote Sensing (MARS) Project*. Public Lecture, National Heritage Week Event, Old Drogheda Society, Millmount Cultural Centre, Drogheda, Co. Louth, 22<sup>nd</sup> August 2013.

**Barton, K.** 2013. *Lasers in the Landscape*. Public Lecture, National Heritage Week Event, Campile/Horeswood Historical Society – Sliabh Coillte Heritage Group, JFK Arboretum, New Ross, Co Wexford, 19<sup>th</sup> August 2013.

**Barton, K.** 2013. *Is it a Hall or is it a grave? - investigating a cropmark using multi-method geophysics followed by a test excavation*. Sliabh Coillte Heritage Group, Campile, Co. Wexford, 22<sup>nd</sup> May 2013.

**Barton, K.** 2013. *Graveyard Survey*. RSS Training Workshop, Ballinasloe Town Council, Ballinasloe, Co Galway, 18<sup>th</sup> April 2013.

**Barton, K.** and Hesse, R. 2013. *Interpreting remote sensing data in a glaciated, karst lowland landscape; what lies around Rathcroghan Mound, Tulsk, Co Roscommon, Ireland?* Rathcroghan Conference 2013. ‘Peeling back the layers’ Tulsk Inn, Tulsk, Co. Roscommon, 12<sup>th</sup> to 14<sup>th</sup> April 2013.

## 2012

**Davis, S.**, Brady, C. and **Barton, K.** 2012. *Multi-method archaeological prospection in the Brú na Bóinne WHS, Co. Meath, Ireland*. Computer Applications and Quantative Methods in Archaeology, CAA 2012, University of Southampton, England, 26<sup>th</sup> – 30<sup>th</sup> March 2012.

**Barton, K.** 2012. *The Light Fantastic; A Preliminary Analysis of Airborne LiDAR data from the Rathcroghan Complex, Co Roscommon*. Conference; “Rathcroghan; An Enigmatic Landscape”, Cruachan Aí Heritage Centre, Tulsk, Co Roscommon, 13<sup>th</sup> – 15<sup>th</sup> April 2012.

**Barton, K.** 2012. *Is it a Hall or is it a grave? - investigating a cropmark using multi-method geophysics followed by a test excavation*. AARTS2012, First Aerial Archaeology Research Training School, Kocaeli, Turkey, 20<sup>th</sup> – 30<sup>th</sup> July 2012.

**Barton, K.** 2012. *Geophysical explorations of Rathcroghan Mound and their intriguing possibilities*. Seminar, Irish Quaternary Association, Field Meeting in Co. Roscommon and South Sligo, Tully’s Hotel, Castlereagh, Co. Roscommon, 7<sup>th</sup> - 9<sup>th</sup> September 2012.

**Brady, C.**, **Barton, K.** and Seaver, M. 2012. *The Saint, a Mound and the Flame on the Hill: Integration of Remote Sensing Techniques on the Hill of Slane Archaeological Project*. Aerial Archaeology Research Group Conference, Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary, 13<sup>th</sup> – 15<sup>th</sup> September 2012.

**Barton, K.** and Hesse, R. 2012. *Interpreting remote sensing data in a glaciated, karst lowland landscape; what lies in and around Rathcroghan Mound, Tulsk, Co Roscommon, Ireland?* Aerial Archaeology Research Group Conference, Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary, 13<sup>th</sup> – 15<sup>th</sup> September 2012.

**Barton, K.** 2012. *Balla Archaeological Remote Sensing Project - background and current work.* Community presentation, Balla No Name Club, Balla, Co Mayo, 22<sup>nd</sup> November 2012.

**Barton, K.** 2012. *Geophysical imaging in geological and archaeological investigations in some Irish wetland environments.* Irish Quaternary Association, Annual Autumn Symposium, “Remote sensing: Applications in Quaternary Science, Archaeology and Landscape Management” Geological Survey of Ireland, Dublin, 30<sup>th</sup> November 2012.

**Hill, I., Barton, K.,** Brady, C., Williams, L. and Krajnák, M. 2012. *Landscape geophysical surveys at Brú na Bóinne World Heritage Site: survey techniques, data quality, and initial archaeological interpretation.* ‘Recent Work in Archaeological Geophysics’, Near-Surface Geophysics Group, the Geological Society, Burlington House, London. 4th December 2012.

**Barton, K.,** Brady, C., Hill, I., Williams, L. and Krajnák, M. 2012. *Geophysical surveys at Site E; preliminary results with an evaluation of a multi-sensor survey platform for use in large-scale geophysical Surveys in Brú na Bóinne.* ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

**Barton, K.,** Brady, C., Pašteka, R., Zahorec, P., Papčo, J. and Murin, I. 2012. *Searching for hidden chambers at Newgrange Passage Tomb; some results with an evaluation of the multi-method geophysical techniques used.* ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

**Brady, C., Barton, K.** and Seaver, M. 2012. *From Prehistory to the Present: Recent Archaeological Survey on the Hill of Slane.* ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

### 2011

**Gibbons, M., Joyce, S. & Barton, K.** 2011. *The Marconi Station at Derrigimlagh.* Clifden and Connemara Heritage Society, joint public lecture, Clifden Station House Hotel, Clifden, Co Galway, 15<sup>th</sup> January 2011

**Barton, K.** 2011. *Seeing beneath the soil and water in the Boyne Valley; geophysical surveys reveal there’s more than meets the eye.* ‘Recent Research in the Boyne Valley’ public seminar, dHotel, Scotch Hall, Drogheda, Co. Louth, 26<sup>th</sup> February 2011.

**Barton, K.,** Brady, C. & Seaver, M. 2011. *Some Geophysical Survey Methodologies for Archaeological Research in the Brú na Bóinne World Heritage Site, County Meath, Ireland.* ‘Near Surface 2011’ 17<sup>th</sup> European Meeting of Environmental and Engineering Geophysics, European Association of Geoscientists and Engineers, University of Leicester, England, 13th September 2011.

**Barton, K.**, Brady, C. & Seaver, M. 2011. *A Tale of Two Mounds: Integrating LiDAR and Multi-method Geophysical Survey in Investigations on Rathcroghan Mound and the Hill of Slane, Ireland* ‘Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation’ Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> -24<sup>th</sup> September 2011.

**Barton, K.** and Joyce, S. 2011. *1919, a Man with a Limp and the Hole in the Bog*. Informal session, ‘Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation’ Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> – 24th September 2011.

**Brady, C.** and **Barton, K.** 2011. *From the Ground Up: Multi-method survey and excavation at Rossnaree, Brú na Bóinne WHS, Ireland*. ‘Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation’ Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> -24<sup>th</sup> September 2011.

**Davis, S.**, Brady, C., Megarry, W. & **Barton, K.** 2011. *The Boyne Valley Landscapes Project* ‘Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation’ Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> – 24<sup>th</sup> September 2011.

**Brady, C.** and **Barton, K.** 2011. *Life and Death on the Banks of the Boyne in the Early Medieval Period: The survey and excavation of the Rossnaree Enclosure*. ‘Vikings in County Louth; Raiders, Traders and Innovators’ Conference, County Museum, Dundalk, 21<sup>st</sup> to 23<sup>rd</sup> October, 2011.

**Gibbons, M.**, Joyce, S. & **Barton, K.** 2011. *Clifden Marconi Station, a global communication hub, 1905-1922 (a lost industrial landscape)*. ‘Heritage tourism and community initiatives : the value of communicating archaeology’ Autumn Conference, Institute of Archaeologists of Ireland, Gresham-Metropole Hotel, Cork City, 4th & 5th November 2011.

Brady, C., **Seaver, M.** & **Barton, K.** 2011. *The Hill of Slane Archaeological Project*. ‘Heritage tourism and community initiatives : the value of communicating archaeology’ Autumn Conference, Institute of Archaeologists of Ireland, Gresham-Metropole Hotel, Cork City, 4th & 5th November 2011.

**Barton, K.**, Joyce, S. & Gibbons, M. 2011. *Investigating the Marconi Wireless Transmission site (1905 – 1922) at Derrigimlagh and the Alcock & Brown landing site (1919) to the south*. Council for Independent Archaeology AGM & Conference, Sharpes Pottery Museum, Swadlincote, South Derbyshire, England, 27<sup>th</sup> November 2011.



2010

**Barton, K.**, Bonsall, J., & Gimson, H. 2010. *Wetland Geophysics; Some Applications in Irish Archaeological Settings*. Wetland Archaeology in Ireland and Beyond. Conference, University College Dublin. 6<sup>th</sup> to 7<sup>th</sup> February 2010.

**Barton, K.**, Bonsall, J., & Gimson, H. 2010. *Wetland Geophysics; Some Applications in Irish Archaeological Settings*. Lecture for Dept of Archaeology, Norwegian University of Science and Technology study visit to Ireland, Mill Times Hotel, Westport, Co Mayo. 12th March 2010.

**Barton, K.** and Brady, C. 2010. *The Discovery of the Rosnaree Enclosure, Co Meath, Ireland: Implications for the Continuing Evaluation of the Archaeological Potential of the Brú na Bóinne World Heritage Site*. Recent Work in Archaeological Geophysics, Near-Surface Geophysics Group, the Geological Society, Burlington House, London. 15<sup>th</sup> December 2010.

2009

**Barton, K.** 2009. *There's more than meets the eye at Rathcroghan Mound*. Lecture for Dept of Archaeology, Norwegian University of Science and Technology study visit to Ireland, Westport Inn, Westport, Co Mayo. 13th March 2009.

**Barton, K.**, Stenvik, L. & Birgisdottir, B. 2009. *A Chieftain's Hall or a Grave: Ground Penetrating Radar in an Archaeological Geophysics Survey to Target the Excavation of a Cropmark near Stiklestad, Nord-Trondelag, Norway*. 5th International Workshop on Advanced Ground Penetrating Radar IWAGPR2009, University of Granada, Granada, Spain. 27<sup>th</sup> to 29th May 2009.

**Barton, K.** and Stenvik, L. 2009. *The Painful Heritage Project*. Public Lecture, Falstad Memorial and Human Rights Centre, Falstad, Nord-Trondelag, Norway. 16th August 2009.

**Barton, K.**, Bonsall, J. & Gimson, H. 2009. *Multi-method Geophysical Survey Reveals some Secrets of the Stone*. Clonmacnoise Studies 3, Seminar, Clonmacnoise National School. 3rd October 2009.

2008

**Barton, K.** and McCarthy, M. 2008. *Newgrange cursus to the passage tomb: seeing beneath the soil with geophysical surveys*. Brú na Bóinne World Heritage Site Research Framework, Heritage Council Public Information Seminar, Conyngham Arms Hotel, Slane, Co, Meath. 11th March 2008.

**Barton, K.**, Bonsall, J. & Gimson, H. 2008. *Investigating enclosures: one geophysical tool or many?* World Archaeology Congress 6 – University College Dublin. 29th June to 4th July 2008.

Stenvik, L., Barton, K., Bonsall, J., Gimson, H. & Randolph, C. 2008. *Cropmarks in the landscape; a Chieftain's Hall near Stiklestad, Nord-Trøndelag, Norway?* World Archaeology Congress 6 – University College Dublin. 29th June to 4th July 2008.

Stenvik, L. and Barton, K. 2008. *Multi-Method Archaeological Geophysics in Ireland and Norway; Research and Developments at NTNU, Trondheim.* Riksantikvaren, Direktoratet for Kulturminneforvaltning, Oslo, Norway. 26<sup>th</sup> August 2008.

Barton, K. and Stenvik, L. 2008. *The Application and Evaluation of Topographic and Geophysical Techniques in the Investigation of a Cropmark at Stiklestad, Nord-Trøndelag.* 9th Nordic Conference on the Application of Scientific Methods in Archaeology - SMIA. National University of Science and Technology, Trondheim, Norway. 11th to 14<sup>th</sup> September 2008.

Sæther, T., Barton, K. & Gimson, H. 2008. *Seeing beneath the soil at Hamar; preliminary results from geophysical surveys.* Stiftelsen Domkirkeodden, Hamar, Norway. 23rd September 2008.

Barton, K. 2008. *Mapping Moygara Castle; from Markus Casey's instrument survey to the Moygara Castle Research Project.* Institute of Archaeologists of Ireland, Autumn Conference 2008, Clarion Hotel, Sligo. 17th to 19th October, 2008.

Barton, K. 2008. *Newgrange Passage tomb and the Cursus: There's more to see than meets the eye.* Autumn Lecture Series, Brú na Boinne Visitor Centre, Newgrange, Co Meath. 22nd October 2008.

#### 2007

Barton, K. 2007. *In Search of Lost Horizons; Geophysical Surveys of some Terrestrial and Underwater Archaeology Sites in Ireland.* Lecture for Dept of Archaeology, Norwegian University of Science and Technology study visit to Ireland, Westport Inn, Westport, Co Mayo. 6th March 2007.

Barton, K., Stenvik, L., Binns, R., Eide, E. & Kimo, I.M. 2007. *Geophysical Surveys at Munkeby Kloster, Levanger, Trøndelag, Norway.* Seminar; Norwegian University of Science and Technology and Institute of Technology, Sligo, IT Sligo. 7th March 2007.

Barton, K., Binns, R., Eide, E. & Stenvik, L. 2007. *Results from Archaeological Geophysical Surveys carried out at Munkeby Kloster, Levanger.* Geofysikk – seminar, Midgard Historisk Senter, Horten, Norway. 26th to 27th April 2007.

Barton, K., Bonsall, J. & Gimson, H. 2007. *Underground, under mound and underwear; some archaeological places that research and commercial GPR surveys have taken us.* Ground Penetrating Radar in the Built and Natural Environment: Geophysical Association of Ireland: Seminar '07, Green Isle Hotel, Newland's Cross, Dublin. 23rd May 2007.

Barton, K. 2007. *Columban Connections; Geophysical Images of Monastic Sites at Mayo Abbey and Glencolmcille.* Heritage Week Public Lecture, Oideas Gael, Glencolmcille, Co Donegal. 30th August 2007.

**Barton, K.** 2007. *Geofysikk og Arkeologi*. Public Lecture, Stiklestad Nasjonale Kultursenter, Stiklestad, Norway. 26<sup>th</sup> September 2007.

2006

**Barton, K.** 2006. *Circles, arcs and lines: glimpses of prehistoric Ireland from archaeological geophysics*. Public Lecture, Institute of Technology, Sligo. 6th March 2006.

**Barton, K.** 2006. *Circles, arcs and lines: glimpses of prehistoric Ireland from archaeological geophysics*. Excavation Fieldschool, Glenveagh, Co Donegal, Centre for the Study of Rural Ireland, Illinois State University. Donegal County Museum, Letterkenny, Co Donegal. 30th June 2006.

**Barton, K.** 2006. *Circles, arcs and lines: glimpses of prehistoric Ireland from archaeological geophysics*. Museum of Natural History and Archaeology, Norwegian University of Science and Technology, Trondheim. 11th September 2006.

**Barton, K.** 2006. *Seeing beneath the soil; some glimpses of prehistoric Ireland from archaeological geophysics*. Public Lecture, Donegal County Museum, Letterkenny, Co Donegal, 27th September 2006.

**Barton, K.** and Harte, M. 2006. *Beltany – A Geophysical Perspective*. Beltany - from Druid to Abbot, Footprints on our Landscape, Conference with associated field excursions & community exhibition, Cathedral Hall, Raphoe, Co. Donegal. 6th to 8th October 2006.

**Brockman, A.** and **Barton, K.** 2006. *Air Photographs, Military Archaeology and Human Memory: A case study from South East London*. Conference; Military Aerial Photography and Archaeology, Flanders Field Museum, Ieper, Belgium. 19th to 21st October 2006.

2005

**Barton, K.**, Farrell, A. & **Coxon, P.** 2005. *The geology of the Woodstown Wetland, Waterford, the N25 and the Vikings next door*. Joint lecture, Lunchtime Lecture Series, Dept of Geology, Trinity College, Dublin. 27th January 2005.

**Barton, K.** 2005. *Introduction to the pre-Christian archaeology of Raphoe, Co Donegal and results from the geophysical survey of Beltany Stone Circle*. Public lecture, Cathedral Hall, Raphoe, Co. Donegal for Raphoe Community in Action. 2nd February 2005.

**Barton, K.** 2005. *Application of archaeogeophysical survey at Rathcroghan, Co Roscommon and Woodstown, Co Waterford*. Lecture for Dept of Archaeology, Norwegian University of Science and Technology study visit to Ireland, Westport Inn, Westport, Co Mayo. 9th March 2005.

**Barton, K.** 2005. *Application of geophysical survey techniques to prospective inshore, riverine and lacustrine archaeological sites*. Tayleur 150 Seminar, 'Recent Advances in Irish Maritime Technology, History and Archaeology', University College Dublin. 23rd April 2005.

Carter, S. and Barton, K. 2005. *Sedimentological and geophysical assessment in the Shannon Estuary in advance of the Limerick Southern Ring Road*. Joint contribution to National Roads Authority Seminar on Estuarine/Alluvial archaeology in Ireland. Towards best practice. University College Dublin. 26th May 2005.

Barton, K. 2005. *Archaeological geophysical surveys and palaeo-environmental assessment at the Woodstown 6 Hiberno-Norse Site, Co Waterford, Ireland*. Public Lecture, Excavation Fieldschool, Riverstown, Co Sligo, Centre for the Study of Rural Ireland, Illinois State University. Sligo Folk Park, Riverstown, Co Sligo. 29<sup>th</sup> June 2005.

Barton, K. and Harte, M. 2005. *Riddle of the stones, a geophysical survey of Beltany Stone Circle*. Beltany; Rediscovering an Ancient Landscape, Conference with associated field excursions & community exhibition, Cathedral Hall, Raphoe, Co. Donegal. 7th to 9th October 2005.

Barton, K. 2005. *Circles, arcs and lines: glimpses of prehistoric Ireland from archaeological geophysics*. Twelfth John Jackson Memorial Lecture, Royal Dublin Society, Dublin. 25th October 2005.

Barton, K. 2005. *Clew Bay Landscapes: Evolving Stories of Rock, Ice and Sediment*. Marine Institute, Newport Golden Jubilee Lecture Series, No 4, “Burrishoole - Past, Present & Future”, Newport Hotel, Newport, Co Mayo. 17<sup>th</sup> November 2005.

Barton, K. 2005. *History and Archaeology of the Monastic Enclosure at Mayo Abbey*. Claremorris Historical Society. Townhall, Claremorris, Co Mayo. 21st November 2005.

#### 2004

Barton, K. 2004. *In search of lost horizons: application of geophysical techniques to a nineteenth century settlement and an industrial site in Ireland*. Symposium: New Perspectives on Historic Ireland: Medieval and Post-Medieval Research, Part II, Conference on Historical and Underwater Archaeology, 37th Annual Conference for Society for Historical Archaeology, St Louis, Missouri, USA. 7th to 11th January 2004.

Barton, K. 2004. *Presenting the past – stones, Vikings, trackways and castles; some community-based heritage projects from County Mayo*. Dingle Historical and Walking Society, An Díseart, Dingle, Co Kerry. 23rd January 2004.

Barton, K. 2004. *In search of lost horizons; remote sensing of archaeological sites in Ireland*. Seminar on *Teampall Bán* archaeological site, Ballyferriter, Co Kerry, Kerry VEC. 24th January 2004.

Barton, K. 2004. *Archaeological geophysics in Ireland; past, present and future*. Archaeogeophysics Seminar, Geophysical Association of Ireland, Institution of Engineers of Ireland, Dublin. 26th May 2004.

Barton, K. 2004. *Present and future practice in the application of geophysical survey to road schemes*. Archaeological Geophysics Workshop, Project Archaeologists’ Meeting, National Roads Authority, Killaloe, Co Clare. 29th October 2004.

**Barton, K.**, Bonsall, J., Gimson, H. & O'Brien, R. 2004. *Woodstown Viking Enclosure, Co. Waterford, Ireland*. Recent work in Archaeological Geophysics, Environmental and Industrial Geophysics Group, Geological Society, Burlington House, London. 15th December 2004.

2003

**Barton, K.** and Parsons, A. 2003. *The inshore zone and potential mapping requirements*. Stakeholders Workshop; Feasibility Study on the Establishment of a Large Scale Inshore Resource Mapping Project, Marine Institute, Dublin Castle. 10th February 2003.

**Barton, K.** and Emblow, C. 2003. *Current and future mapping requirements*. Stakeholders Workshop; Feasibility Study on the Establishment of a Large Scale Inshore Resource Mapping Project, Marine Institute, Dublin Castle. 10<sup>th</sup> February 2003.

**Barton, K.** and Murphy, L. 2003. *Travels in Time Project*. Arts Council Seminar, EU Culture 2000 Programme, St Stephen's Green Hotel, Dublin. 9th September 2003.

2002

**Barton, K.** 2002. *Use of magnetic susceptibility topsoil mapping in archaeological assessment for road projects*, Project Archaeologists' Meeting, National Roads Authority, Bundoran, Co Donegal. 21st February 2002.

**Barton, K.** 2002. *The Borg Maritime Landscape Project, Lofoten Islands, Norway; preliminary results from the waterborne geophysical survey of Inner Borgpollen*. Annual General Meeting, Institute of Archaeologists of Ireland, Mullingar, Co Westmeath. 9th and 10th March 2002.

**Barton, K.** and Fenwick, J. 2002. *Geophysical investigations at the ancient Royal site of Rathcroghan, Co Roscommon, Ireland*. Recent work in Archaeological Geophysics, Environmental and Industrial Geophysics Group, Geological Society, Burlington House, London. 17th December 2002.

2001

**Barton, K.** 2001. *Interpretation and presentation of cultural heritage as a tool in community development; some experiences from County Mayo, Ireland. Brubygging – Før og no [Bridge Building – Then and Now]*, Community Seminar, Borg, Lofoten Islands, Northern Norway. 31st May to 1st June 2001.

**Barton, K.** 2001. *Archaeological geophysics on Nineteenth century industrial and settlement sites in Ireland*. Public Lecture, Achill Archaeological Fieldschool, Dooagh, Achill, Co. Mayo. 17th July 2001.

**Barton, K.** 2001. *Preliminary results from the waterborne geophysical survey of Inner Borgpollen*. Public Lecture, Lofotr Viking Museum, Borg, Lofoten Island, Northern Norway. 7th November 2001.

**Barton, K.** and Brett, J. 2001. *The use of landscape and cultural heritage resources as a tool in the development of rural tourism; some ideas from County Mayo in Western Ireland.* Attraksjonsseminar [Cultural Tourism Seminar], Norwegian Aviation Museum, Bodø, Northern Norway. 14th and 15th November 2001.

2000

**Barton, K.**, Rooney, S. & O'Hara, D. 2000. *Geophysical Mapping in Bantry Bay, Co Cork.* Network for Underwater Archaeology Conference, Towards an Understanding of Maritime Archaeology in Ireland, Centre for Maritime Archaeology, University of Ulster, Coleraine. 11th March 2000.

**Barton, K.** and Geraghty, L. 2000. *Seeing beneath the soil: an archaeological-geophysical survey of the Tankardstown Engine House site.* Mining Heritage Society of Ireland, Bunmahon Heritage Centre, Bunmahon, Co. Waterford. 12<sup>th</sup> May 2000.

**Barton, K.** 2000. *Archaeological geophysics in Ireland.* Public Lecture, Achill Archaeological Summer Field School, Achill Folklife Centre, Dooagh, Achill Island, Co Mayo. 13th July 2000.

**Barton, K.**, Madden, J. & Rooney, S. 2000. *Geophysical images of a rath and souterrain at Mayo Abbey, Co Mayo.* Mayo through the Millennia Conference and Community Exhibition, Archaeological and Historical Societies of Mayo, Hotel Westport, Co Mayo. 8th October 2000.

**Barton, K.** and Geraghty, L. 2000. *Results from a geophysical survey at Tankardstown Engine House, Bunmahon, Co. Waterford.* Symposium, Mining Heritage Society, Annestown, Co Waterford. 3rd November 2000.

1999

**Breen, C.** and **Barton, K.** 1999. *Marine archaeology in the Republic of Ireland.* Jointly presented at Irish Sea Forum, Marine Archaeology of the Irish Sea, University of Liverpool. 14th January 1999.

**Barton, K.** and Fuller, J. 1999. *Mayo Abbey: landscape and human dynamics.* Spring Meeting, Irish Association of Professional Archaeologists, the Guildhall, Derry. 11th March 1999.

**Barton, K.**, **O'Sullivan, A.** & **Breen, C.** 1999. *If we're all going down, lets all go down together: introducing the Network for Underwater Archaeology (N.U.A.).* Spring Meeting, Irish Association of Professional Archaeologists, the Guildhall, Derry. 11th March 1999.

**Barton, K.**, Madden, M., Hogan, L. & Rooney, S. 1999. *Geophysical images of a rath and souterrain near Mayo Abbey, Co. Mayo, Ireland.* International Conference, Computer Applications in Archaeology, Dublin Castle, Dublin. 4<sup>th</sup> April 1999.

**Barton, K.** and Brown, C. 1999. *Geophysics in underwater archaeology in Ireland.* Network for Underwater Archaeology Symposium, NUI, Galway. 3rd September 1999.

1998

**Barton, K.** and Brett, J. 1998. *Archaeological geophysics at Mayo Abbey, Co Mayo; a community perspective*. Swinford Archaeological and Historical Society, Swinford, Co Mayo. 3rd March 1998.

**Barton, K.** 1998. *Seeing beneath Earth and ocean: geophysical contribution to the New Survey of Clare Island*. Sixth Annual Seminar, New Survey of Clare Island, Royal Irish Academy, Dublin. 23rd April 1998.

**Barton, K.**, Keary, R., Unnithan, V. & Breen, C. 1998. *Application of high-resolution geophysical surveys to archaeological and geological mapping*. Marine Institute, Year of the Ocean International Conference, Dublin Castle, Dublin. 4th December 1998.

1997

**Barton, K.** and Brennan, Y. 1997. *Archaeological geophysics and the anatomy of Rathcroghan mound, near Tulsk, County Roscommon, Ireland*. United Kingdom Geophysical Assembly 21, Southampton Oceanography Centre, University of Southampton. 2nd to 4th April 1997.

**Barton, K.** and Grant, F. 1997. *Seeing beneath the soil; archaeological geophysics at Muliviltrin, Strokestown, Co Roscommon*. Public Lecture Programme, Excavation Summer School, Illinois State University, Parochial Hall, Strokestown, Co Roscommon. 5th July 1997.

1996

**Barton, K.**, Brennan, Y. & Fenwick, J. 1996. *Seeing beneath the soil; the ArchaeoGeophysical Imaging Project at Rathcroghan Mound near Tulsk, Co Roscommon*. Joint Lecture to Mayo Archaeological and Historical Society, Imperial Hotel, Castlebar, Co Mayo. 11th February 1996.

**Barton, K.**, Brennan, Y. & Delaney, C. 1996. *Recent results from the ArchaeoGeophysical Imaging Project (AGIP) at Rathcroghan Mound near Tulsk, Co Roscommon*. 39th Annual Irish Geological Research Meeting, University College Dublin. 23rd February 1996.

**Barton, K.**, Brennan, Y. & Delaney, C. 1996. *Recent results from the ArchaeoGeophysical Imaging Project at Rathcroghan Mound near Tulsk, Co Roscommon*. Annual Discussion Meeting and AGM, Irish Association for Quaternary Studies, Trinity College, Dublin. 6th March 1996.

**Barton, K.** 1996. *Seeing beneath the soil; the archaeological-geophysical imaging project*. Irish Science Teachers Association, NUI, Galway. 28th March 1996.

**Barton, K.**, Brennan, Y. & Fenwick, J. 1996. *Seeing beneath the soil; images of our archaeological heritage*. Geological Society, NUI, Galway. 3rd November 1996.

**Barton, K.** and Waddell, J. 1996. *Archaeogeophysical discovery at Rathcroghan*. Autumn Conference, Irish Association of Professional Archaeologists, White's Hotel, Wexford. 16th November 1996.

1995

**Barton, K.** 1995. *ArchaeoGeophysical Imaging Project; preliminary results from Rathcroghan mound, Tulsk, Co Roscommon*. Annual Discussion Meeting and AGM, Irish Association for Quaternary Studies, Maynooth. 11th March 1995.

**Barton, K.** 1995. *Geophysical surveys in support of the Archaeology and Geology Sections on and around Clare Island*. Public Seminar on the Royal Irish Academy New Survey of Clare Island, Geological Survey of Ireland, Dublin. 7th April 1995.

**Barton, K.** and Waddell, J. 1995. *The ArchaeoGeophysical Imaging Project; some results from Rathcroghan mound, Tulsk, Co Roscommon*. Environmental and Industrial Geophysics Group, Joint Association of Geophysics, Geological Society Seminar on Archaeological Geophysics, British Geological Survey, Keyworth, Notts. 19th May 1995.

1994

**Barton, K.** 1994. *Application of geophysical techniques to shallow sub-surface investigations*. Annual Discussion Meeting and AGM, Irish Association for Quaternary Studies, University College Galway. 12th March 1994.

**Barton, K.,** O'Callaghan, K. & Tully, T. 1994. *Recent research in surface and downhole geophysics on Irish carbonate-hosted deposits*. Irish Association for Economic Geology Seminar, Geological Survey of Ireland, Dublin. 16th February 1994.

**1.2 Posters**

2017

**Barton, K.** and Latham, G. 2017. *New views of LiDAR data for Wallingford Castle and Town using RVT open source software*. Poster presented at Conference 2017, Council for Independent Archaeology, Sharpe's Pottery Museum, Swadlincote, S. Derbyshire, England, 22<sup>nd</sup> October 2017.

**Barton, K.,** Wroniecki, P., Bulas, J., Brejcha, R. & Mesterházy, G. 2017. *Rzemienowice, Nida Basin, Lesser Poland Upland; investigating the archaeological source of a magnetic anomaly in an excavation in sandy loess soils using field and laboratory based magnetic susceptibility measurements*. Poster presented at 'Finds in the Landscape; New Perspectives and Results from Archaeological Surveys, International Conference, LVR-Amt für Bodendenkmalpflege in Rheinland, Fritz Thyssen Stiftung, Cologne, Germany, 12<sup>th</sup> to 13<sup>th</sup> June 2017.

2015

**Barton, K.** and Flynn, J. 2015. *Above and Below; Investigating hidden features in Kilmokea Enclosure, Great Island, County Wexford, Ireland*. Poster presented at Aerial Archaeology Research Group, International Conference, Santiago de Compostela, Spain, 9<sup>th</sup> to 11<sup>th</sup> September 2015.



**Barton, K.**, Curley, D. and Hanlon, N. 2015. *Rathcroghan & the Role of Remote Sensing in Interpreting a Unique Archaeological Landscape*. Poster presented at ‘Sensing the Past; New Approaches to European Landscapes’ ArchaeoLandscapes Europe Final Conference 2015, Goethe University, Frankfurt, Germany, 24<sup>th</sup> to 26<sup>th</sup> February 2015.

**Barton, K.**, Flynn, J. and Kenny, J. 2015. *Kilmokea and Kilberry; Community-based Archaeological Remote Sensing in Ireland*. Poster presented at ‘Sensing the Past; New Approaches to European Landscapes’ ArchaeoLandscapes Europe Final Conference 2015, Goethe University, Frankfurt, Germany, 24<sup>th</sup> to 26<sup>th</sup> February 2015.

**Barton, K.**, Foster, K., Latham, G. and Fadden, K. 2015. *Council for Independent Archaeology; Community Archaeology and Remote Sensing*. Poster presented at ‘Sensing the Past; New Approaches to European Landscapes’ ArchaeoLandscapes Europe Final Conference 2015, Goethe University, Frankfurt, Germany, 24<sup>th</sup> to 26<sup>th</sup> February 2015.

Brady, C. and **Barton, K.** 2015. *Archiving Geophysical Survey Data from the Brú na Bóinne WHS, Co Meath, Ireland*. Poster presented at ‘Sensing the Past; New Approaches to European Landscapes’ ArchaeoLandscapes Europe Final Conference 2015, Goethe University, Frankfurt, Germany, 24<sup>th</sup> to 26<sup>th</sup> February 2015.

#### 2014

Kenny, J., **Barton, K.** and Brady, C. 2014. *Community Archaeology Above and Below; Kilberry, County Meath, Ireland*. Poster presented at Aerial Archaeology Research Group, International Conference, Woodquay Venue, Dublin, 24<sup>th</sup> to 26<sup>th</sup> September 2014.

Brady, C. and **Barton, K.** 2014. *Further Archaeological Survey on the Hill of Slane, Co. Meath, Ireland*. . Poster presented at Aerial Archaeology Research Group, International Conference, Woodquay Venue, Dublin, 24<sup>th</sup> to 26<sup>th</sup> September 2014.

#### 2013

**Barton, K.**, Brady, C. and Meehan, R. 2013. *Brú na Bóinne Remote Sensing Project; An assessment of the archaeological potential of a low-level airborne geophysical dataset from the Boyne Valley, Ireland*. Aerial Archaeology Research Group, International Conference, ‘The Past and Present from Above’ Cultural Heritage Agency of the Netherlands, Amersfoort, The Netherlands, 26<sup>th</sup> - 28<sup>th</sup> September 2013.

**Barton, K.** and Walsh, T. *BARS – Balla Archaeological Remote Sensing Project*. Poster presented at ‘From Known Knowns to Unknown Unknowns: Remotely detecting the past.’ ArchaeoLandscapes Europe Conference, Wood Quay Venue, Dublin City Council, 9<sup>th</sup> and 10<sup>th</sup> May 2013.

**Barton, K.**, Pašteka, R., Brady, C., Zahorec, P., Papčo, J and Murin, I. 2013. *Searching for hidden chambers at Newgrange Passage Tomb; some results with an evaluation of the multi-method geophysical techniques used*. Poster presented at ‘Non-destructive approaches to complex archaeological sites in Europe: a round-up’, Radio-Past Colloquium, Het Pand, University of Ghent, Belgium, 15<sup>th</sup> – 17<sup>th</sup> January 2013.

Brady, C., Hill, I., **Barton, K.**, Williams, L. and Krajňák, M. 2013. *Evaluation of a Multi-Sensor Platform in a Large-Scale Geophysical Survey at Brú na Bóinne World Heritage Site, Ireland*. Poster presented at ‘Non-destructive approaches to complex archaeological sites in Europe: a round-up’, Radio-Past Colloquium, Het Pand, University of Ghent, Belgium, 15<sup>th</sup> – 17<sup>th</sup> January 2013.

**Barton, K.** 2013. *Some LiDAR Images of the Rathcroghan Landscape*. Poster presented at the Rathcroghan Conference 2013. ‘Peeling back the layers’ Tusk Inn, Tusk, Co. Roscommon, 12<sup>th</sup> to 14<sup>th</sup> April 2013.

### 2012

S. Davis, S., Megarry, W., Brady, C. and **Barton, K.** 2012. *Remote sensing and archaeological prospection in Brú na Bóinne World Heritage Site, Ireland*. Poster presented at Society for American Archaeology, 77<sup>th</sup> Annual Meeting, Memphis, Tennessee, USA. 18<sup>th</sup> - 22<sup>nd</sup> April 2012.

Hill, I., **Barton, K.**, Brady, C., Williams, L. and Krajňák, M. 2012. *Application of Remote Sensing techniques at Brú na Bóinne World Heritage Site, County Meath, Ireland*. ‘Recent Work in Archaeological Geophysics’, Near-Surface Geophysics Group, the Geological Society, Burlington House, London. 4th December 2012.

**Barton, K.** and Brady, C. with Balcerzak, A., Campbell, K., Corns, A., Devlin, G., Pisz, M., Shaw, and Wroniecki, P. 2012. *An International Surface Collection and Remote Sensing Field School at the Hill of Slane, County Meath, Ireland*. Poster presented at Aerial Archaeology Research Group Conference, Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary, 13<sup>th</sup> – 15<sup>th</sup> September 2012.

**Barton, K.** and Brady, C. 2011. *Towards an Integrated, Multi-method Remote Sensing Strategy for Archaeological Landscape Analysis: the Discovery of the Rosnaree Enclosure, Brú na Bóinne World Heritage Site, Co Meath, Ireland*. Poster presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

**Barton, K.** and Brady, C. with Balcerzak, A., Campbell, K., Corns, A., Devlin, G., Pisz, M., Shaw, and Wroniecki, P. 2012. *An International Surface Collection and Remote Sensing Field School at the Hill of Slane, County Meath, Ireland*. Poster presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

Brady, C., **Barton, K.** & Davis, S. 2012. *Putting LiDAR to the test in the Brú na Bóinne WHS, Ireland: Site discovery, definition and investigation using LiDAR, geophysics and coring*. Poster presented at ‘Recent Archaeological Research in the Boyne Valley’ public seminar, Conyngham Arms Hotel, Slane, Co Meath, 15<sup>th</sup> December 2012.

2011

**Barton, K.** and Brady, C. 2011. *Towards an Integrated, Multi-method Remote Sensing Strategy for Archaeological Landscape Analysis: the Discovery of the Rosnaree Enclosure, Brú na Bóinne World Heritage Site, Co Meath, Ireland.* Poster presented at 'Recent Research in the Boyne Valley' public seminar, dHotel, Scotch Hall, Drogheda, Co. Louth, 26<sup>th</sup> February 2011.

**Barton, K.,** Brady, C. & Davis, S. 2011. *Geophysical Surveys to Assist the Boyne Landscapes Project at the Brú na Bóinne World Heritage Site, Co Meath, Ireland.* Poster presented at 'Recent Research in the Boyne Valley' public seminar, dHotel, Scotch Hall, Drogheda, Co Louth, 26<sup>th</sup> February 2011.

**Barton, K.** 2011. *Revisiting the Anatomy of Rathcroghan Mound, County Roscommon, Ireland with New Technology, Software and Interpretation.* Poster presented at 'Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation' Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> -24<sup>th</sup> September 2011.

Brady, C., **Barton, K.** & Davis, S. 2011. *Putting LiDAR to the test in the Brú na Bóinne WHS, Ireland: Site discovery, definition and investigation using LiDAR, geophysics and coring.* Poster presented at 'Ambitions and Realities; Remote Sensing for Archaeology, Research and Conservation' Joint meeting of the Aerial Archaeology Research Group and European Association of Remote Sensing Laboratories, Institute of Prehistory, Adam Mickiewicz University, Poznan, Poland, 21<sup>st</sup> -24<sup>th</sup> September 2011

2010

**Barton, K.** and Brady, C. 2010. *Towards an Integrated, Multi-method Remote Sensing Strategy for Archaeological Landscape Analysis: the Discovery of the Rosnaree Enclosure, Brú na Bóinne World Heritage Site, Co Meath, Ireland.* Poster presented at International Aerial Archaeology Conference, Aerial Archaeology Research Group, Caro Hotel, Bucharest, Romania, 15<sup>th</sup> to 18<sup>th</sup> September 2010.

**Barton, K.,** Brady, C. & Davis, S. 2010. *Geophysical Surveys to Assist the Boyne Landscapes Project at the Brú na Bóinne World Heritage Site, Co Meath, Ireland.* Poster presented at Recent Work in Archaeological Geophysics, Near-Surface Geophysics Group, the Geological Society, Burlington House, London. 15<sup>th</sup> December 2010.

2008

Bonsall, J., Gimson, H., **Barton, K.** & Brockman, A. 2008. *Conflict Archaeology: Archaeological Geophysics and Remote Sensing.* Poster session, World Archaeology Congress 6 – University College Dublin. 29th June to 4th July 2008.

Bonsall, J., Gimson, H., **Barton, K.,** Stenvik, L., Birgisdóttir, B. & Sæther, T. 2008. *Geophysics and Archaeology: 2D & 3D Methods of Investigation applied to Archaeological Sites in Norway.* Poster Session, 9th Nordic Conference on the Application of Scientific Methods in Archaeology - SMIA. National University of Science and Technology, Trondheim, Norway. 11th to 14th September 2008.

## 2.0 ARCHAEOLOGY

### *2.1 Forthcoming*

Wroniecki, P and **Barton, K.** (Accepted) *Is It Only Finds In The Landscape?* in Keller, C and Wohlfarth, C. (eds.). Proceedings of International Conference; Finds in the landscape – New perspectives and results from archaeological field surveys. 12-13 June 2017 Cologne, Germany. NN-NN. LVR: Cologne.

**Barton, K.** and Murphy, C. 2018. *The Case of the Stony Silence.* in Fenwick, J. (ed.) Lost and Found III. NN-NN. Wordwell: Bray.

### *2.2 Journal Papers*

Brady, C., **Barton, K.** and Seaver, M. 2013. Recent geophysical investigations and LiDAR analysis at the Hill of Slane, Co. Meath. *Ríocht na Mídhe*, **XXIV**, 134-155. Records of Meath Archaeological and Historical Society. ISSN 0461-5050.

**Barton, K.** 2006. Topographical and Geophysical Surveys at Tankardstown Mine, Bunmahon, County Waterford. *Journal of the Mining Heritage Trust of Ireland*, **5**, 2005, 15-22. MHTI: Dublin.

**Barton, K.** and Fenwick, J. 2005. Geophysical investigations at the ancient royal site of Rathcroghan, County Roscommon, Ireland. *Archaeological Prospection*, **12**, 1-16. Wiley.

Ruffell, A., Geraghty, L., Brown, C. & **Barton, K.** 2004. Ground-penetrating radar facies as an aid to sequence stratigraphic analysis: application to the archaeology of Clonmacnoise Castle, Ireland, *Archaeological Prospection*, **11**, 247-262. Wiley.

Quinn, R., Breen, C., Forsythe, W., **Barton, K.**, Rooney, S. & O'Hara, D. 2002. Integrated geophysical surveys of the French frigate La Surveillante (1797), Bantry Bay, Co. Cork, Ireland, *Journal of Archaeological Science*, **29**, 413-422. Elsevier Science: Netherlands.

Slater, L., Kulesa, B. & **Barton, K.** 1996. An investigation of the ability of geophysical methods to detect and define Fulachta Fia (burnt mounds) on Clare Island, Co. Mayo, Ireland. *Archaeological Prospection*, **3**, 53-69. Wiley.

Lawless, C., **Barton, K.** & Monaghan, D. 1995. Primary observations of a modern working fulachta fiadh and geophysical survey of the modern and an ancient fulachta fiadh in S Mulloy (ed.). *Cathair na Mart*, **15**, 44-58. Westport Historical Society: Westport.

### *2.3 Books, Chapters/Sections in Books & Monographs*

**Barton, K.** and Curley, D. 2017. *Archaeological Remote Sensing; some Community Engagement in Ireland.* in Ciolfi, L., Damala, A., Hornecker, E., Lechner, M. and Maye, L. (eds.), Cultural Heritage Communities: Technologies and Challenges, 20-37. Routledge: London.

**Barton, K.** 2015. *Above and below: Community engagement in remote sensing in Ireland.* in A. G. Posluschny (ed), *Sensing the Past; contributions from the ArcLand Conference on Remote Sensing for Archaeology*, 96-97. Habelt-Verlag: Bonn.

**Barton, K.**, Curley, D and Hanlon, N. 2015. *Rathcroghan and the role of remote sensing in interpreting a unique archaeological landscape* in A. G. Posluschny (ed), *Sensing the Past; contributions from the ArcLand Conference on Remote Sensing for Archaeology*, 120-121. Habelt-Verlag: Bonn.

**Barton, K.**, Flynn, J. and Kenny, J. 2015. *Kilmokea and Kilberry: Community-based archaeological remote sensing in Ireland.* in A. G. Posluschny (ed), *Sensing the Past; contributions from the ArcLand Conference on Remote Sensing for Archaeology*, 112-113. Habelt-Verlag: Bonn.

**Barton, K.**, Foster, K., Latham, G. and Fadden, K. 2015. *Council for Independent Archaeology: Community Archaeology and Remote Sensing.* in A. G. Posluschny (ed), *Sensing the Past; contributions from the ArcLand Conference on Remote Sensing for Archaeology*, 102-103. Habelt-Verlag: Bonn.

Brady, C. and **Barton, K.** 2015. *Archiving geophysical survey data from the Brú na Bóinne WHS, Co. Meath, Ireland.* in A. G. Posluschny (ed), *Sensing the Past; contributions from the ArcLand Conference on Remote Sensing for Archaeology*, 82-83. Habelt-Verlag: Bonn.

Davis, S., Brady, C., Megarry, W. and **Barton, K.** 2013. *Lidar survey in the Brú na Bóinne World Heritage Site* in Opitz, R. and Cowley, D. (eds) *Interpreting Archaeological Topography*, **18**, 225-239. Oxbow Books: Oxford.

Brockman, A. and **Barton, K.** 2009. *Air Photographs, Military Archaeology and Human Memory: A Case Study from South East London* in B Stichelbaut, J Bourgeois, N Saunders & P Chielens (eds.). *Images of Conflict: Military Aerial Photography & Archaeology*, 221-240. Cambridge Scholars Publishing: Newcastle.

Waddell, J., Fenwick, J. & **Barton, K.** 2009. *Rathcroghan, Co. Roscommon: Archaeological and Geophysical Survey in a Ritual Landscape*, 249pp. Wordwell: Bray.

**Barton, K.J.** 2003. *Geophysical survey* in B Lalor (ed.). *The Encyclopedia of Ireland*, 435. Gill & Macmillan: Dublin.

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## **2.7 Conference Proceedings, Symposia, Field Guides, Workshops & Field Schools**

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### 2.10 Exhibitions, Radio & TV Programmes and Video Production

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### **2.11 Community Field Demonstrations, Schools & Workshops**

**Barton, K.** and Dowling, S. Photogrammetry Workshop, Heritage Week event, St. Carthage's Cathedral, Lismore, Co. Waterford, 21<sup>st</sup> August 2017.

**Barton, K.** 2016. Resurrecting Monuments Project, Heritage Week Demonstration Event, Tower Hill, Howth, Dublin, 27<sup>th</sup> August 2016.

**Barton, K.** and Lawless, C. 2016. Heritage Week Exhibition and Demonstration Event, Schools Archaeological Remote Sensing Project, National Museum of Ireland – Country Life, Turlough, Co Mayo, 24<sup>th</sup> August 2016.

**Barton, K.** 2016. Heritage Week Demonstration Event, Hannon's Hotel, Co Roscommon, 23<sup>rd</sup> August 2016

**Barton, K.** 2016. Heritage Week Demonstration Event, Dunbrody Abbey, Co Wexford, 21<sup>st</sup> August 2016.

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**Barton, K.** 2015. Heritage Week Demonstration Event, Kilmokea Enclosure, Kilmokea, Co Wexford, 22<sup>nd</sup> August 2015.

**Barton, K.** 2015. Waterford County Museum, Community Training Weekend, Gallows Hill, Dungarvan, Co Waterford, 10<sup>th</sup> to 12<sup>th</sup> July 2015.

**Barton, K.** and Curley, D. 2015 *Archaeological Remote Sensing; some Community Engagement in Ireland*. Workshop “Cultural Heritage Communities: Technologies and Challenges” 28<sup>th</sup> June 2015 held at 7<sup>th</sup> International Conference on Communities & Technologies (C&T2015), University of Limerick, 27<sup>th</sup> to 30<sup>th</sup> June 2015.

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**Barton, K.** & Keating, T. 2014. *Archaeology Above and Below*, Kite Aerial Photography and Geophysical Survey at Dunhill Castle, National Heritage Week Event, Dunhill, Co Waterford. 24<sup>th</sup> & 25<sup>th</sup> August 2014.

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**Barton, K.** 2014. *Kilmokea, Great Island, Co Wexford*. Community Training Workshop 2, Sliabh Coillte Heritage Group, 26<sup>th</sup> to 28<sup>th</sup> April 2014.

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### 3.0 GEOLOGY

#### 3.1 Journal Papers

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#### 3.2 Chapters in Books

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### **3.4 Published Reports**

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