



Dir. PD Ao. Univ.-Prof. Mag. Dr. Wolfgang Neubauer

Address:

Ludwig Boltzmann Institute
for Archaeological Prospection and Virtual Archaeology
Hohe Warte 38, A-1190 Wien

Vienna Institute for Archaeological Science, University of Vienna
Franz-Klein-Gasse 11, A-1190 Wien

Phone: +43 664 60277 40304
E-mail: Wolfgang.Neubauer@archpro.lbg.ac.at
Homepage: archpro.lbg.ac.at
vias-geo.univie.ac.at

Date/Place of Birth: September 14th 1963, Altstätten/CH **Nationality:** Austria **Civil Status:** married, 5 children

EDUCATION

Ludwig Boltzmann Gesellschaft:

2016 LOIS – Lab for Open Innovation in Science

University of Vienna:

2008 Habilitation, Prehistoric Archaeology: Interdisciplinary Field Archaeology
2000 Dr. Phil., Prehistoric Archaeology: Magnetic Prospecting in Archaeology
1993 Mag. Phil., Prehistoric Archaeology, Archaeometry and Mathematics
1984-1993 Studies of Prehistory, Archaeometry and Mathematics

Technische Universität Wien

1985-1993 Studies of Mathematics and Computer Science
2003 Training “3D Laser Scanning”, Riegl LMS
1993 Qualification “Systemadministrator for SUN OS”
1991 Training Ground Penetrating Radar, GSSI Inc., University of Patras
1991 Training “Interpretation of Aerial Photos”, Leica, Switzerland

1969-1982 Primary, Secondary and High School in Altstätten & Heerbrugg, Switzerland

EMPLOYMENT

Research

2010-present Director of the Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology
2012-present Vice Director VIAS-Vienna Institute for Archaeological Science
2017-present Speaker of the research focus Digital Humanities, University of Vienna
1994-present Researcher at VIAS-Vienna Institute for Archaeological Science (VB1a/hb), University of Vienna
2007-2008 Research Assistant at the Institute for Computer Graphics and Algorithms, Technische Universität Wien
2007 Visiting researcher: Xian – Qianling, China & Bermuda Maritime Museum
2006 Guest Professor, University of Applied Science, Mainz
2002 Guest Professor, Institute for Ancient History, University of Innsbruck
2002 Visiting researcher: Nara, Japan & Bermuda Maritime Museum
1996-2004 Researcher at Austrian Central Institute for Meteorology and Geodynamics, Dept. of Geophysics, Archeo Prospections® Team
1994-1995 Research Assistant at the Institute for Prehistory and Early Medieval History, University of Vienna: “Set-up of a Magnetic Prospection System for Archaeology”

Teaching

2011-present Speaker of the PhD College for Archaeological Prospection (ic-archpro.univie.ac.at)
2009-present Professor at VIAS-Vienna Institute for Archaeological Science and the Institute for Prehistory and Historical Archaeology, University of Vienna
2016 WWTF GSK Summer School: „Advanced archaeological prospection, documentation and interpretation for cultural heritage management”
1995-2008 Senior Lecturer, Institute for Prehistory and Historical Archaeology, University of Vienna: “GIS-applications in archaeology, geophysical prospection in theory and practice, statistics, archaeological stratigraphy in theory and practice, geodesy for archaeologists, digital documentation of excavations”

2013 Guest Lecturer, Queens University Belfast
 2003, 2006 Lecturer at the Fachhochschule Mainz for GIS in Archaeology
 2002 Visiting Professor, Institute of Ancient History, University of Innsbruck
 1998-1999 Lecturer at the Institute for Pre- and Protohistory, University of Innsbruck:
 "Geophysical Prospection"

Academic Supervision

2011-present Speaker of the PhD College for Archaeological Prospection (ic-archpro.univie.ac.at)
 PhD theses 19
 Master theses 10

RESEARCH ACTIVITIES AND EXPERIENCE

Research Projects

2021-present Project leader "Königsberg Research", Gemeinde Tieschen (AT)
 2010-present Director of Archaeological Landscape Prospection Projects in Stonehenge (UK), Oseberg Hinterland (N), Kaupang Hinterland (N), Birka-Hovgården (S), Uppåkra (S), Carnuntum(A), Flavia Solva (A), Stubersheim (D), Kilianstädten (D), Kreuttal (A), Halbturn (A), Ringkøbing Amt (DK), Caricin Grad (SRB), Bassianae (SRB), Laa a.d. Thaya (A), Borre (N), Rechnitz (A), St. Gallen (CH), Triesen (FL), Prag (CZ), Shaftesbury Abbey (UK)
 2018 Field-director of the international archaeological excavation project at Borre, Norway
 2017 Field-director of the archaeological excavation at Durrington Walls, United Kingdom
 2008-2012 Project coordinator, "AstroSim – Simulation of astronomical aspects of Middle Neolithic circular ditch systems"
 2007-2008 Project coordinator, European Researchers' Night project "CelticNight"
 2004 Project coordinator "Scanning of the Great Pyramid"
 2002-present Field-director of over 30 national and international 3D laser-scan surveys
 1985-present Field-director of over 200 national and international archaeological-geophysical surveys applying magnetometry, GPR, resistivity mapping and magnetic susceptibility measurements
 1983-present Director of 9 short & long-term archaeological excavations projects in Austria and Switzerland
 1992-present Project coordinator: The Schwarzenbach Project
 2003-2005 Project coordinator: „Himmelskult der Steinzeit? - Sozio-kulturelle und archäo-astronomische Untersuchung der Kreisgrabenanlagen in Niederösterreich“
 2003-2004 Project coordinator: „Virtual Modeling of Circular Ditch Systems“
 2002-2004 Scientific coordinator and field director: „Systematic Prospection of Neolithic Circular Ditch Systems in Austria“

Research Grants

2017 LBG, LBI ArchPro, Euro 3.420.000, lead PI
 2012 Gov. of the County of Lower Austria, ArchPro Carnuntum, Euro 937.660, lead PI
 2010 LBG, LBI ArchPro, Euro 10.070.000, lead PI

Honors

2018 Corresponding member, Austrian Academy of Sciences
 2017 Pioneer in Open Innovation in Science 2017 (Ludwig Boltzmann Gesellschaft, Austria)
 2016 Austrian Scientist of the Year 2015 (Klub der Bildungs- und WissenschaftsjournalistInnen, Austria)
 Ball ambassador of the "Vienna Ball of Sciences 2016"
 2008 Austrian Champion in European Research 2008 (Austrian Research Promotion Agency)

Relevant Skills

Project management, coordination of research teams, interdisciplinary communication, public relations, fund raising, scientific event organisation, science communication, motivation of young researchers, scientific networking, IT software specification

PROFESSIONAL ACTIVITIES

Conferences

2013 Organisation of the 10th International Conference on Archaeological Prospection 2013, Austrian Academy of Sciences
 2008 Organisation of the international conference "35 years Harris Matrix", Austrian Academy of Sciences
 2001 Organisation of the 4th International Conference on Archaeological Prospection 2001, Austrian Academy of Sciences
 1994-present Presentations on international conferences (17 invited papers, 45 papers, 41 posters) mainly on archaeological prospection and excavation methods

Publishing

- 2008 – 2012 Editor of the Journal “ViaVIAS”
2002-present Associate editor of the Journal “Archaeological Prospection”
1990-present Author of over 200 scientific publications mainly on archaeological prospection and excavation methods
1980-1984 Journalist for Culture and Science, Switzerland

Memberships

- International Society for Archaeological Prospection (ISAP)
Member of the standing committee for SMIA (Scientific methods in Archaeology)
Gesellschaft für Naturwissenschaftliche Archäologie
Archäologie Schweiz
Österreichische Gesellschaft für Ur- und Frühgeschichte
Österreichische Gesellschaft für Mittelalterarchäologie
Austrian Geophysical Society
Gesellschaft der Freunde von Carnuntum

SCIENCE OUTREACH

Exhibitions

- 2021-2022 Curator of the exhibition “Stonehenge – Von Menschen und Landschaften“, LWL-Museum für Archäologie Herne, Germany
2021-present Concept/Design of exhibition “Folge der Herde“, Lipizzanergestüt Piber, Austria
2018-present Curator of the exhibition “Celtovation“, Schwarzenbach, Austria
2017-2018 Curator of the exhibition “Hauger, Haller, Hav“, Midgard Viking Centre at Borre, Norway
2015-2017 Curator of the exhibition “Stonehenge, Hidden Landscape, MAMUZ, Austria
2008 Curator of the exhibition “Blick in die Tiefe“, Flavia Solva, Styria
2003-2005 Curator of the county exhibition of Lower Austria 2005 at Heldenberg

TV productions

- 2022 Der Aufstieg der Habsburger – Schlacht am Marchfeld (ORF)
2021 In den Fängen der Wikinger (ORF, ARTE), Die verborgene Welt von Stonehenge – Terra X (ZDF)
2020 Auf den Spuren der ersten Bauern – nano (3sat)
2019 Virtuelle Archäologie – P.M. Wissen (ServusTV)
2018 Nano, Newton, Quantensprung – science TV shows (ORF, 3sat)
2017 Rätsel der Steinzeit (ARTE)
2016 Birka (SVT)
2015 Carnuntum – Stadt der Gladiatoren (ORF, ZDF, SBS, France 5, Smithsonian Channel)
2014 Stonehenge (ORF, BBC, ZDF, SBS, France 5, Smithsonian Channel)

Public Science Fairs and Lectures (selected)

- 2019 Geowissenschaftliche Methoden in der archäologischen Prospektion. Symposium "Geowissenschaftliche Methoden in der Archäologie". Österreichische Akademie der Wissenschaften, Wien, 21.10.2019.
Forschungsfest Niederösterreich. Palais NÖ, Vienna, 27.9.2019.
- 2018 „Stonehenge und die Erkundung archäologischer Landschaften“. Public lecture at the 78. annual meeting of the Deutschen Geophysikalischen Gesellschaft and the Österreichischen Geophysikalischen Gesellschaft. Montanuniversität Leoben, 14.02.2018.
Wiener Forschungsfest (Vienna Business Agency, City of Vienna), CREAM, 14.-16.9.2018.
- 2017 Vienna Ball of Sciences, Rathaus Wien, 28.1.2017.
„Archäologie ohne Schaufel und Spaten“. 64. Wiener Kindervorlesung. ZOOM Children’s Museum. Vienna, Austria, 26.03.2017.
"Virtuelle Welten - Archäologie und Hightech", Mamuz Museum Mistelbach, Austria, 1.5.2017.
Forschungsfest Niederösterreich. Palais NÖ, Vienna, 15.9.2017.
- 2016 Science Talk „Österreich sucht den Super-Wissenschaftler/die Super-Wissenschaftlerin – Ist smart sein allein zu wenig?“. Public panel discussion with T. Henzinger (president of IST Austria), U. Felt (Faculty of Social Sciences, University Vienna) and M. Haidinger (ORF-Radio science); organized by the Austrian Federal Ministry of Education, Science and Research at the ÖAW, Vienna, 14.3.2016.
Lange Nacht der Forschung, Mamuz Mistelbach, 22.4.2016.
„Stonehenge und die Prospektion archäologischer Landschaften“. Europäisches Forum Alpbach (Club Alpbach Steiermark). Graz, Austria, 23.05.2016.

„Stonehenge Hidden Landscapes Project: Wie Technologie aus Österreich die Archäologie revolutioniert!“. YO!TECH – Lust auf Technik. Vienna, Austria, 28.06.2016.
Forschungsfest on Tour (Vienna Business Agency, City of Vienna). PH und KPH Wien, September 2016.
Tec X-perience-exhibition at the European Forum Alpbach, 25.-27.8.2016.

2015 Kinderuni on Tour. Schallaburg, Lower Austria, June 2015.
Royal Society Exhibition. London, UK, 29.6.-5.7.2015.
Wiener Forschungsfest 2015 (Vienna Business Agency, City of Vienna), Naschmarkt Vienna, 11.-14.9.2015.

SELECTED PUBLICATIONS

Bornik, Alexander; Neubauer, Wolfgang (2022): 3D Visualization Techniques for Analysis and Archaeological Interpretation of GPR Data. In: *Remote Sensing* 14 (7), S. 1709. DOI: 10.3390/rs14071709.

Schneidhofer, Petra; Tønning, Christer; Cannell, Rebecca J. S.; Nau, Erich; Hinterleitner, Alois; Verhoeven, Geert Julien Joanna; Gustavsen, Lars; Paasche, Knut; Neubauer, Wolfgang; Gansum, Terje (2022): The Influence of Environmental Factors on the Quality of GPR Data: The Borre Monitoring Project. In: *Remote Sensing* 14 (14), S. 3289. DOI: 10.3390/rs14143289.

Teichmann, Michael; Wallner, Mario; Pollhammer, Eduard; Neubauer, Wolfgang (2022): Untersuchungen zu einer möglichen Fullonica in der Zivilstadt von Carnuntum. In: *Archäologisches Korrespondenzblatt* 52 (1), S. 113–125.

Gugl, Christian; Wallner, Mario; Hinterleitner, Alois; Neubauer, Wolfgang (2021): The Seat of the Roman Governor at Carnuntum (Pannonia Superior). In: *Heritage* 4 (4), S. 3009–3031. DOI: 10.3390/heritage4040168.

Wallner, Mario; Doneus, Michael; Kowatschek, Ingrid; Hinterleitner, Alois; Köstelbauer, Felix; Neubauer, Wolfgang (2022): Interdisciplinary Investigations of the Neolithic Circular Ditch Enclosure of Velm (Lower Austria). In: *Remote Sensing* 14 (11), S. 2657. DOI: 10.3390/rs14112657.

Mölders, Doreen; Rind, Michael M.; Schierhold, Kerstin; Neubauer, Wolfgang; Richards, Julian (Hg.) (2021): *Stonehenge. Von Menschen und Landschaften*: LWL-Museum für Archäologie, Westfälisches Landesmuseum Herne. Michael Imhof Verlag; LWL-Museum für Archäologie; Ludwig Boltzmann Institute Archaeological Prospection and Virtual Archaeology. Petersberg: Michael Imhof Verlag.

Filzwieser, Roland; Ivanišević, Vujadin; Verhoeven, Geert J.; Gugl, Christian; Löcker, Klaus; Bugarski, Ivan; Schiel, Hannes; Wallner, Mario; Trinks, Immo; Trausmuth, Tanja; Hinterleitner, Alois; Marković, Nemanja; Docter, Roald; Daim, Falko; Neubauer, Wolfgang (2021): Integrating Geophysical and Photographic Data to Visualize the Quarried Structures of the Roman Town of Bassianae. In: *Remote Sensing* 13 (12), S. 2384. DOI: 10.3390/rs13122384.

Gaffney, Christopher; Gaffney, Vincent; Baldwin, Eamonn; Bates, Martin; Bates, Richard; Kinnaird, Tim; Sparrow, Tom; Lockyear, Klaus; Neubauer, Wolfgang; Trinks, Immo; Wallner, Mario (2021): Multidisciplinary Investigation of the Pit Circuit at Durrington Walls, UK. In: *Archeosciences* 45 (1), S. 59–61. DOI: 10.4000/archeosciences.8455.

Filzwieser, Roland; Aldrian, Lisa; Stadler, Harald; Neubauer, Wolfgang (2021): Burg Schönwerth. Archäologische Re-Prospektion einer wüsten mittelalterlichen Niederungsburg in Volders, Tirol. In: *Archaeologia Austriaca* (105), S. 205–222. DOI: 10.1553/archaeologia105s205.

Tønning, Christer; Schneidhofer, Petra; Nau, Erich; Gansum, Terje; Lia, Vibeke; Gustavsen, Lars; Filzwieser, Roland; Wallner, Mario; Kristiansen, Monica; Neubauer, Wolfgang; Paasche, Knut; Trinks, Immo (2020): Halls at Borre: the discovery of three large buildings at a Late Iron and Viking Age royal burial site in Norway. In: *Antiquity* 94 (373), S. 145–163. DOI: 10.15184/aqy.2019.211.

Gaffney, Vincent; Baldwin, Eamonn; Bates, Martin; Bates, C. Richard; Gaffney, Christopher; Hamilton, Derek; Kinnaird, Tim; Neubauer, Wolfgang; Yorston, Ronald; Allaby, Robin; Chapman, Henry; Garwood, Paul; Löcker, Klaus; Hinterleitner, Alois; Sparrow, Tom; Trinks, Immo; Wallner, Mario; Leivers, Matthew (2020): A Massive, Late Neolithic Pit Structure associated with Durrington Walls Henge. In: *Internet Archaeology* 55. DOI: 10.11141/ia.55.4.

Zotti, Georg; Neubauer, Wolfgang (2019): Beyond the landscape: analysis of Neolithic circular ditch systems of Lower Austria with advanced virtual archaeoastronomy. In: *Virtual Archaeology Review* 10 (21), S. 90–102. DOI: 10.4995/var.2019.10772.

Gabler, Manuel; Trinks, Immo; Nau, Erich; Hinterleitner, Alois; Paasche, Knut; Gustavsen, Lars; Kristiansen, Monica; Tønning, Christer; Schneidhofer, Petra; Kucera, Matthias; Neubauer, Wolfgang (2019): Archaeological Prospection with Motorised Multichannel Ground-Penetrating Radar Arrays on Snow-Covered Areas in Norway. In: *Remote Sensing* 11 (21), 2485. DOI: 10.3390/rs11212485.

Filzwieser, Roland; Olesen, Lis Helles; Neubauer, Wolfgang; Trinks, Immo; Mauritsen, Esben Schlosser; Schneidhofer, Petra et al. (2017): Large-scale geophysical archaeological prospection pilot study at Viking Age and medieval sites in west Jutland, Denmark. In: *Archaeological Prospection* 24 (4), S. 373–393. DOI: 10.1002/arp.1576.

- Gaffney, Vince; Neubauer, Wolfgang; Garwood, Paul; Gaffney, Chris; Löcker, Klaus; Bates, Richard et al. (2018): Durrington walls and the Stonehenge Hidden Landscape Project 2010-2016. In: *Archaeological Prospection* 25 (3), S. 255–269. DOI: 10.1002/arp.1707.
- Neubauer, W, Bornik A, Wallner M, Verhoeven G. 2019: Novel volume visualisation of GPR data inspired by medical applications. In: James Bonsall (ed): *New Global Perspectives on Archaeological Prospection. ICAP 2019 - 13th international conference on archaeological prospection. ICAP 2019 - 13th international conference on archaeological prospection. Sligo, Ireland, 28.08.-01.09.2019. Oxford: Archaeopress, 309–312.*
- Bornik A, Wallner M, Hinterleitner A, Verhoeven G, Neubauer W. 2018. Integrated Volume Visualisation of Archaeological Ground Penetrating Radar Data. In: Robert Sablatnig und Michael Wimmer (eds): *Proceedings of the 16th Eurographics Workshop on Graphics and Cultural Heritage (GCH 2018). Vienna, Austria, 12.-14.11.2018. Aire-la-Ville: The Eurographics Association, 231–234. DOI: 10.2312/gch.20181368.*
- Doneus N, Neubauer W, Doneus M, Wallner M. 2018. Die archäologische Landschaft von Halbtürn. Ergebnisse aus drei Jahrzehnten integrierter archäologischer Prospektion. In: *Archaeologia Austriaca* (102), 201–226. DOI: 10.1553/archaeologia102s201.
- Filzwieser R, Helles Olesen L, Verhoeven G, Schlosser Mauritsen E, Neubauer W, Trinks I, Nowak M, Nowak R, Schneidhofer P, Nau E, Gabler M. 2018. Integration of Complementary Archaeological Prospection Data from a Late Iron Age Settlement at Vesteraager—Denmark. In: *Journal of Archaeological Method and Theory* 25 (2), 313–333. DOI: 10.1007/s10816-017-9338-y.
- Gaffney V, Neubauer W, Garwood P, Gaffney C, Löcker K, Bates R., de Smedt P, Baldwin E, Chapman H, Hinterleitner A, Wallner M, Nau E, Filzwieser R, Kainz J, Trausmuth T, Schneidhofer P, Zotti G, Lugmayr A, Trinks I, Corkum A. 2018. Durrington walls and the Stonehenge Hidden Landscape Project 2010-2016. In: *Archaeological Prospection* 25 (3), 255–269. DOI: 10.1002/arp.1707.
- Gibson A, Neubauer W, Flöry S, Filzwieser R, Nau E, Schneidhofer P, Strapazzon G, Batt C, Greenwood D, Bradley P, Challinor D. 2017. Excavation of a Neolithic House at Yarnbury, near Grassington, North Yorkshire. In: *Proceedings of the Prehistoric Society* 83, 189–212. DOI: 10.1017/ppr.2016.15.
- Neubauer W, Traxler C, Lenzhofner A, Kucera M. 2018. Integrated Spatio-temporal Documentation and Analysis of Archaeological Stratifications Using the Harris Matrix. In: Robert Sablatnig und Michael Wimmer (eds): *Eurographics Workshop on Graphics and Cultural Heritage: The Eurographics Association.*
- Neubauer W, Wallner M, Gugl C, Löcker K, Vonkilch A, Trausmuth T, Nau E, Jansa V, Wilding J, Manojlovic R, Schiel H, Totschnig R, Filzwieser R, Sandici V, Schneidhofer P, Kucera M, Tencer T, Gabler M, Flöry S, Kainz J, Hinterleitner A, Lugmayr A, Doneus N, Aldrian L, Kröhl M, Poscetti V, Markussen C, Trinks I, Zitz T, Verhoeven G, Doneus M, Seren S, Saey T, van Meirvenne M, Humer F. 2018. Zerstörungsfreie archäologische Prospektion des römischen Carnuntum – erste Ergebnisse des Forschungsprojekts „ArchPro Carnuntum“. In: *Carnuntum Jahrbuch 2017*, 55–75. DOI: 10.1553/cjb_2017s55.
- Trinks I, Hinterleitner A, Neubauer W, Nau E, Löcker K, Wallner M, Gabler M, Filzwieser R, Wilding J, Schiel H, Jansa V, Schneidhofer P, Trausmuth T, Sandici V, Ruß D, Flöry S, Kainz J, Kucera M, Vonkilch A, Tencer T, Gustavsen L, Kristiansen M, Bye-Johansen L, Tønning C, Zitz T, Paasche K, Gansum T, Seren S. 2018. Large-area high-resolution ground-penetrating radar measurements for archaeological prospection. In: *Archaeological Prospection* 25 (3), 171–195. DOI: 10.1002/arp.1599.
- Gugl C, Jernej R, Neubauer W, Nau E. 2017. Die Kasernen der singulares des norischen Provinzstatthalters in Virunum. In: I. Dörfler, Paul Gleirscher, Sabine Ladstätter und I. Pucker (eds): *AD AMUSSIM. Festschrift zum 65. Geburtstag von Franz Glaser. Klagenfurt (Kärntner Museumsschriften, 85), 61–85.*
- Neubauer W. 2017. Kreisgrabenanlagen (4850/4750 – 4650/4500 BC). In: Eva Lenneis (ed.): *Erste Bauerndörfer – älteste Kultbauten. Die frühe und mittlere Jungsteinzeit in Niederösterreich. Wien: Verlag der Österreichischen Akademie der Wissenschaften (Archäologie Niederösterreichs), 276-296.*
- Trinks I, Wallner M, Kucera M, Verhoeven G, Torrejón Valdelomar J, Löcker K, Nau E, Sevara C, Aldrian L, Neubauer W, Klein M. 2017. Documenting Bronze age Akrotiri on Thera using laser scanning, image-based modelling and geophysical prospection. In: D. Aguilera, A. Georgopoulos, T. Kersten, Fabio Remondino und E. Stathopoulou (eds.): *TC II & CIPA. 3D Virtual Reconstruction and Visualization of Complex Architectures. Nafplio, Greece, 01.-03.03.2017. ISPRS (Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-2/W3, 2017), 631–638.*
- Gugl C, Neubauer W, Nau E, Jernej R. 2016. Das Militärlager in Virunum (Noricum). Zur Stationierung von römischen Truppen (singulares) an Statthaltersitzen - Teil 2. In: *Carnuntum Jahrbuch 2014*, 55–66.
- Humer F, Neubauer W, Konecny A, Nau E, Fuchshuber N. 2016. Die Grabungen 2014 im Bereich der Gladiatorenschule von Carnuntum. In: *Carnuntum Jahrbuch 2014*, 167–172.
- Schneidhofer P, Nau E, Hinterleitner A, Lugmayr A, Bill J, Gansum T, Paasche K, Seren S, Neubauer W, Draganits E, Trinks I. 2016. Palaeoenvironmental analysis of large-scale, high-resolution GPR and magnetometry data sets. The Viking Age site of Gokstad in Norway. In: *Archaeological and Anthropological Sciences*. DOI: 10.1007/s12520-015-0312-x.

- Draganits E, Doneus M, Gansum T, Gustavsen L, Nau E, Tønning C, Trinks I, Neubauer W. 2015. The late Nordic Iron Age and Viking Age royal burial site of Borre in Norway: ALS- and GPR-based landscape reconstruction and harbour location at an uplifting coastal area. In: *Quaternary International* (367), 96–110. DOI: 10.1016/j.quaint.2014.04.045.
- Neubauer W, Gugl, C, Scholz M, Verhoeven G, Trinks I, Löcker K, Doneus M, van Meirvenne M, Saey T. 2014. The discovery of the school of gladiators at Carnuntum, Austria. *Antiquity* 88, 173-190, DOI: 10.3997/1873-0604.2014014.
- Neubauer W. 2014. Die Entdeckung des Forums der Zivilstadt. In *Carnuntum – Wiedergeborene Stadt der Kaiser*. Humer F. (Hg.), WBG, Darmstadt, 2014, 88-89.
- Pregesbauer M, Trinks I, Neubauer W. 2014: An object oriented approach to automatic classification of archaeological features in magnetic prospection data. *Near Surface Geophysics*, 12(5), 651-656, DOI: 10.3997/1873-0604.2014014.
- Neubauer W, Trinks I, Salisbury R, Einwögerer Ch (eds). 2013. *Archaeological Prospection. Proceedings of the 10th International Conference on Archaeological Prospection*. Wien, Austria, May 29th - June 2nd 2013. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Saey T, van Meirvenne M, de Smedt P, Neubauer W, Trinks I, Verhoeven G, Seren S. 2013. Integrating multi-receiver electromagnetic induction measurements into the interpretation of the soil landscape around the school of gladiators at Carnuntum. *European Journal of Soil Science* 64, 716-727.
- Neubauer W, Seren S, Hinterleitner A, Doneus M, Löcker K, Trinks I, Nau E, Pregesbauer M, Kucera M, Verhoeven G. 2013. The discovery of a gladiatorial school at Carnuntum. In: Wolfgang Neubauer, Immo Trinks, Roderick B. Salisbury und Christina Einwögerer (eds): *Archaeological Prospection. Proceedings of the 10th International Conference on Archaeological Prospection*. Wien, Austria, May 29th - June 2nd 2013. Wien: Verlag der Österr. Akademie der Wissenschaften, 423–426.
- Fera M, Neubauer W, Doneus M. 2013. 3D documentation and visualisation of stratigraphic archaeological excavations. In: *Virtual Archaeology (non-destructive methods of prospection, modeling, reconstruction)*, Proceedings of the first int. conference held at the State Hermitage Museum 4-6 June 2012. The State Hermitage Publishers: St. Petersburg 2013, 140-142.
- Gaffney C, Gaffney V, Neubauer W, Baldwin E, Löcker K. 2013. An integrated geophysical approach to Stonehenge. In: Wolfgang Neubauer, Immo Trinks, Roderick B. Salisbury und Christina Einwögerer (eds): *Archaeological Prospection. Proceedings of the 10th International Conference on Archaeological Prospection*. Wien, Austria, May 29th - June 2nd 2013. Wien: Verlag der Österreichischen Akademie der Wissenschaften, 230.
- Bill J, Nau E, Neubauer W, Trinks I, Tønning C, Gustavssen L, Paasche K, Seren S. 2013. Contextualising a monumental burial - The Gokstad revitalised project. In: Wolfgang Neubauer, Immo Trinks, Roderick B. Salisbury und Christina Einwögerer (eds): *Archaeological Prospection. Proceedings of the 10th International Conference on Archaeological Prospection*. Wien, Austria, May 29th - June 2nd 2013. Wien: Verlag der Österreichischen Akademie der Wissenschaften, 134–136.
- Neubauer W. 2012: *Kreisgrabenanlagen – Middle Neolithic Ritual Enclosures in Austria 4800-4500 BC*. In: Alex Gibson (ed.): *Enclosing the Neolithic. Recent studies in Britain and Europe* British. Oxford: Archaeopress (BAR International Series, 2440).
- Neubauer W, Doneus M, Trinks I, Verhoeven G, Eder-Hinterleitner A, Seren S, Löcker K. 2012. Long-term integrated archaeological prospection at the Roman Town of Carnuntum/Austria. In Johnson, P. & Millett, M. (eds), *Archaeological Survey and the City*. University of Cambridge Museum of Classical Archaeology Monograph Series No. 3. Oxford: Oxbow, 202–221.
- Gaffney C, Gaffney V, Neubauer W, Baldwin E, Chapman H, Garwood P, Moulden H, Sparrow T, Bates R, Löcker K, Hinterleitner A, Trinks I, Nau E, Zitz T, Floery S, Verhoeven G, Doneus M. 2012. The Stonehenge Hidden Landscapes Project. *Archaeological Prospection* 19, 147-155.
- Neubauer W, Doneus M, Trinks I. 2012. Advancing the Documentation of Buried Archaeological Landscapes. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences XXXIX-B5*, 547-552.
- Zotti G, Neubauer W. 2012. A Virtual Reconstruction Approach for Archaeoastronomical Research. In *Proceedings of the 18th International Conference on Virtual Systems and Multimedia - Virtual Systems in the Information Society, IEEE, Milano 2012*, Guidi G, Addison AC (eds); 33–40.
- Verhoeven G, Doneus M, Briese C, Neubauer W, Doneus N, Trinks I, Hinterleitner A, Pregesbauer M. 2012. Latest developments in remote sensing of Roman urban and rural sites in Austria. In *Proceedings of the RAC 2012 - The Roman Archaeology Conference 10, Frankfurt 2012*.
- Gaffney, Chris; Gaffney, Vince; Neubauer, Wolfgang 2011. Methodological and Archaeological Challenges of the Stonehenge Hidden Landscape Project. In: Mahmut G. Drahor und Meriç A. Berge (eds): *Archaeological Prospection. Proceedings of the 9th International Conference on Archaeological Prospection*. Izmir-Turkey, September 19-24, 2011. Istanbul: Archaeology and Art Publications, 180–182.

- Zotti G, Neubauer W. 2011. Astronomical Aspects of Kreisgrabenanlagen (Neolithic Circular Ditch Systems) - An Interdisciplinary Approach. In *Archaeoastronomy and Ethnoastronomy: Building Bridges between Cultures, Proceedings of the 9th "Oxford" International Symposium on Archaeoastronomy (IAU Symposium 278)*, Lima, Ruggles CLN (ed.). Cambridge University Press; 1743-9213.
- Doneus M, Verhoeven G, Fera M, Briese Ch, Kucera M, Neubauer W. 2011. From deposit to point cloud – A study of low-cost computer vision approaches for the straight forward documentation of archaeological excavations. In *Proceedings of the 13th International CIPA Symposium Prague 2011, Geoinformatics CTU FCE*; 81-88.
- Doneus M, Neubauer W, Verhoeven G, Briese C. 2011. Advancing Archaeological Airborne Remote Sensing. Core Concepts of the LBI-ArchPro Initiative. In *Archaeological Prospection. 9th International Conference on Archaeological Prospection, Izmir-Turkey, Drahor MG, Berge MA. Archaeology and Art Publications: Istanbul*; 12-15.
- Ch'ng E, Chapman H, Gaffney V, Gaffney C, Murgatroyd P, Neubauer W. 2011. From Sites to Landscapes: How Computing Technology Is Shaping Archaeological Practice. *Computer* 44/7, 40-46.
- Melichar P, Neubauer W (eds). 2010. *Mittelneolithische Kreisgrabenanlagen in Niederösterreich. Geophysikalisch-archäologische Prospektion – ein interdisziplinäres Forschungsprojekt. Mitteilungen der prähistorischen Kommission* 71.
- Lobisser WFA, Kucera M, Neubauer W. 2010. 11 Years of the Celtic Festival in Schwarzenbach / Lower Austria and the EU-Project Researchers'Night 2007. In *liveARCH – Living history in archaeological open air museums*, Schöbel G (ed.). *Unteruhldingen*; 50-58.
- G. Zotti, W. Neubauer, P. Schneidhofer, R. Totschnig. Simulation of astronomical aspects of Middle Neolithic circular ditch systems. *Archeo Sciences, revue d'archéométrie, Suppl. 33, 2009, 379-382.*
- Erich Nau, Wolfgang Neubauer, Hans Reschreiter. 3D laser scanner documentation of prehistoric tunnels at Hallstatt-Grünerwerk. In: *Anreiter P. et al., Mining in European History. Innsbruck 2009, 88.*
- Michael Doneus, Wolfgang Neubauer. GIS-based documentation of stratigraphic excavations using terrestrial laser scanners. In: *Anreiter P. et al., Mining in European History. Innsbruck 2009, 90.*
- A. Hinterleitner, S. Seren, K. Löcker, W. Neubauer, E. Bayirli. Data Processing and Image Enhancement of GPR surveys of Roman villas in Austria. *Archeo Sciences, revue d'archéométrie, Suppl. 33, 2009, 299-302.*
- Christoph Traxler, Wolfgang Neubauer. The Harris Matrix Composer - A New Tool to Manage Archaeological Stratigraphy. In: *Digital Heritage, Proceedings of the 14th International Conference on Virtual Systems and Multimedia - Cyprus, 13-20, 2008.*
- Wolfgang Neubauer, Michael Doneus. Digital recording of stratigraphic archaeological excavations using terrestrial 3D laser scanners. *ViaVIAS 02, 2008, 45-52.*
- Wolfgang Neubauer. From Practice to Theory – Expanding the stratigraphic recording into real 3D. *ViaVIAS 02, 2008, 31-36.*
- Michael Doneus, Wolfgang Neubauer. Aerial Archaeology and airborne laser scanning at the Iron Age hillfort Schwarzenbach-Burg. *ViaVIAS 02, 2008, 53 – 59.*
- Wolfgang Neubauer, Nikolaus Studnicka. The Scanning of the Pyramids Project. *ViaVIAS 01, 2007, 4-13.*
- Wolfgang Neubauer, *Laser Scanning and Archaeology – Standard Tool for 3D Documentation of Excavations. GIM international – The global magazine for Geomatics. Vol. 21, issue 10, 2007, 14-17.*
- Doneus, M. & Neubauer, W., *Laser scanners for 3D documentation of stratigraphic excavations. In: Baltsavias et al. (eds) Recording, Modeling and Visualization of Cultural Heritage, Taylor & Francis, London, 2005, 193-203.*
- W. Neubauer, M. Doneus, N. Studnicka, J. Riegl. Combined High Resolution Laser Scanning and Photogrammetrical Documentation of the Pyramids at Giza. In: *Dequal S. (ed.) Proceedings of the XXth International Symposium CIPA, Torino 2005. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XXXVI-5/C34/1, 2005, 470-475226-231.*
- Doneus M., Neubauer W., *3D laser scanners on archaeological excavations. In: Dequal S.: (ed.) Proceedings of the XXth International Symposium CIPA, Torino 2005. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XXXVI-5/C34/1, 2005, 226-231.*
- Neubauer Wolfgang. *GIS in Archaeology – The Interface between Prospection and Excavation. Archaeological Prospection* 11, 2004, 159-166.
- Groh, S., Neubauer, W. 2003. Einsatz eines terrestrischen 3D-Laserscanners in Ephesos. *Jahreshefte des ÖAI in Wien, Bd. 72, 2003, 111-122.*
- Neubauer W, Eder-Hinterleitner A, Seren S, Melichar P. 2002. Georadar in the Roman Civil Town Carnuntum / Austria: An approach on archaeological interpretation of GPR data. *Archaeological Prospection* 9, 135-156.

- Groh S, Neubauer W, Seren S, Eder-Hinterleitner A, Löcker K. 2002. Geophysikalische Messungen im nordöstlichen Stadtteil von Flavia Solva: Interpretation und archäologisch-historische Auswertung. *Sonderschriften des ÖAI* 71: 79-132.
- Neubauer W. 2002. Archaeological Prospection – A Special Application in eCulture. In *Viewdet 2002, Vienna International Working Conference – eLearning and eCulture*, Riedling E (ed.); 203-214.
- Neubauer W, Eder-Hinterleitner A, Melichar P, Steiner R. 2001. Improvements in high resolution archaeological magnetometry. *Prospezioni Archeologiche* 11, 113-134.
- Eder-Hinterleitner A, Neubauer W. 2001. Reconstructing neolithic ditches by magnetic modelling. *Prospezioni Archeologiche* 11, 45-63.
- Doneus M, Eder-Hinterleitner A, Neubauer W. 2001. Archaeological Prospection 4th International Conference on Archaeological Prospection, Vienna, Doneus M, Eder-Hinterleitner A, Neubauer W (eds). Wien: Verlag der Österreichischen Akademie der Wissenschaften, 11-33.
- Neubauer W. 2001. Images of the Invisible - Prospection methods for the documentation of threatened archaeological sites. *Naturwissenschaften* 88, 13-24.
- Neubauer W. 2001. Magnetische Prospektion in der Archäologie. *Mitteilungen der Prähistorischen Kommission* 44, Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Neubauer W, Eder-Hinterleitner A, Seren S, Melichar P, Doneus M. 2000. Kombinierte archäologische Prospektion am Beispiel der römischen Zivilstadt Carnuntum. *Carnuntum Jahrbuch* 2000, 27-52.
- Neubauer W, Eder-Hinterleitner A, Seren S, Doneus M, Melichar P. 1998-1999. Kombination archäologisch-geophysikalischer Prospektionsmethoden am Beispiel der römischen Zivilstadt Carnuntum. *Archaeologia Austriaca* 82-83, 1-26.
- Neubauer W, Eder-Hinterleitner A. 1997. 3D interpretation of postprocessed archaeological magnetic prospection data. *Archaeological Prospection* 4, 191-205.
- Neubauer W, Eder-Hinterleitner A. 1997. Resistivity and magnetics of the roman town Carnuntum / Austria: An example of combined Interpretation of prospection data. *Archaeological Prospection* 4, 179-189.
- Doneus M, Eder-Hinterleitner A, Neubauer W. 1997. Combination of geomagnetics and low altitude aerial photogrammetry in archaeology. *International Archives of Photogrammetry and remote sensing* 32(Part 5C1B), 84-89.
- Neubauer W, Melichar P, Eder-Hinterleitner A. 1996. Collection, visualization and simulation of magnetic prospection data. *Analecta praehistorica Leidensia* 28, 121-129.
- Eder-Hinterleitner A, Neubauer W, Melichar P. 1996. Reconstruction of archaeological structures using magnetic prospection. *Analecta praehistorica Leidensia* 28, 131-137.
- Eder-Hinterleitner A, Neubauer W, Melichar P. 1996. Restoring magnetic anomalies. *Archaeological Prospection* 3, 185-197.
- Neubauer W. 1995 *Flums-Gräpplang. Eine spätbronzezeitliche Siedlung in der Schweiz*. Bd. 1 Rebbegg Ost, Grabungen 1967-1982, Buchs.
- Neubauer W. 1990. Geophysikalische Prospektion in der Archäologie. *Mitteilungen der anthropologischen Gesellschaft in Wien* 120, 1-60.