



Track record

Wolfgang Neubauer studied Prehistoric Archaeology, Mathematics, Archaeometry and Computer Science at the University of Vienna and at the Vienna University of Technology. He specialized in archaeological prospecting, digital documentation and virtual reality visualisation of archaeological heritage. He obtained a Ph.D. at the University of Vienna based on his thesis “Magnetic Prospecting in Archaeology”. In 2008 he received the *venia docendi* at the Institute for Prehistory and Early Medieval History of the University Vienna on his Habilitation “Interdisciplinary Field Archaeology”. Since 2017 he is a member of the Austrian Academy of Sciences. In 2010 he established the Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology (LBI ArchPro), focussing on an interdisciplinary research programme for the development of large scale, efficient, non-invasive technologies for the discovery, documentation, visualisation and interpretation of Europe's archaeological heritage. The LBI ArchPro, a research institute of the Ludwig Boltzmann Gesellschaft directed by Wolfgang Neubauer, carries out its research activities together with current 13 co-funding international governmental and academic research partner organisations and SME's.

Wolfgang Neubauer is doing archaeological research on sites all over the world for over 30 years and coordinated many national and international research projects. His main research starting in 1985 focused on the application of geophysical prospecting and remote sensing methods in archaeology. Together with the team Archeo Prospections® (1996 – 2004), the Vienna Institute for Archaeological Science (1994 – present) and the Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology he and his team developed equipment, logistics and software for the high-resolution geophysical prospecting and remote sensing of archaeological sites and the complete digital recording of stratigraphic archaeological excavations. The main developments are in motorized multi-sensor fluxgate- and cesium-gradiometry, motorized multi-channel ground penetrating radar, the applications of terrestrial 3D laser scanners in archaeology and 3D processing and interpretation of archaeological prospecting and excavation data. He presented his research by invited papers and keynote lectures on many international conferences and in peer reviewed international journals.

He has been and still is involved in several large short and long term national and international research projects in Bermuda, Norway, Sweden to name a few. Many of them coordinated by Neubauer. These projects and surveys cover a wide range of archaeological problems and sites from all prehistoric and historic periods, many of them applied latest technological developments science, others range in the field of basic research and innovative development of new technologies

applicable to archaeological problems. He directed more than 250 integrated archaeological prospection projects in Austria and abroad.

Since 1995 he is engaged with teaching at the University of Vienna where he holds a professorship specially presenting his respective fields of research (geophysical prospection, archaeological stratigraphy, excavation techniques, GIS, statistics) and his practical experience to the next generation of researchers. All over his career he integrated students and post-docs into contract work and his research projects, for the dissemination of the new technological developments, the development of the young researchers' practical skills and their career development alike. He is currently speaker of the PhD College for Archaeological Prospection at the University of Vienna.

He was acting as curator of the County Exhibition 2005 of Lower Austria at Heldenberg presenting the Middle Neolithic Circular Ditch Systems in all aspects (2003-2005) to the public. Related to the preparation of this exhibition he directed scientific research projects on the virtual reconstruction and simulation of the astronomical aspects of this oldest European Monuments and acted as field director for the systematic prospection of all Austrian monuments. He was awarded "Austrian Champion in European Research 2008" for coordinating the European Researchers' Night 2007 Project "CelticNight" in Austria. In 2016 he curated an exhibition on the large scale prospection project at Stonehenge he is co-directing under the title "Stonehenge – Hidden Landscape" at the MAMUZ museum. In 2017 he curated in collaboration with the Norwegian partners an exhibition in the Mitgard historisk senter in Borre, Norway. He is author and co-author of over 250 scientific publications and over 200 unpublished scientific prospection and excavation reports.

He was involved as acting scientist and scientific consultant for various TV-productions with the BBC, Smithsonian, France5, ZDF, ORF, SpiegelTV, 3SAT and many others and invoked and coordinated various scientific events and international conferences. Together with his engagement as curator of large exhibitions and scientific events these participations developed his primary experience as writing journalist into extended skills in dissemination of scientific results to the scientific community and the general public alike. In January 2016 he was awarded Austrian Scientist of the Year 2015 especially for his skills in science communication.

His scientific career, his extended experience in fund raising, the design of research teams also the organisation of excavations with students from the University of Vienna, and the coordination of research projects as well as his net-working, organisational and public relation skills qualify him for research management and the coordination of large scale international research projects.