



Mag. Dr. Phil.
Nadja Wallaszkovits

Audio Engineer
Head of Audio Department
Restoration & Transfer Specialist

Nadja Wallaszkovits is a specialist in audio restoration, re-recording and digital archiving. She manages the audio department of the Vienna Phonogrammarchiv as a senior researcher and is consultant for archival technology for various National and International Institutions. She is guest lecturer at the University of Vienna and at the Universities of Applied Sciences in Berlin and Berne.

Nadja is Audio Engineering Society (AES) President Elect, Vice Chair of the Technical Committee of the International Association of Sound and Audiovisual Archives (IASA), and member of the IASA Training & Education Committee.

Work Experience

2005 - Present

Phonogrammarchiv, Austrian Academy of Sciences, Vienna

Head of Audio Department

- Senior researcher, evaluated scientific employment
- Manager of the working group for technical development
- Responsible for collection-management, preservation, digitization and long time storage strategy, field recording technology and methods
- Scientific publications, lecturing, national and international relations

NOA GmbH, Vienna, Austria

Research Department Manager (part time)

2015 - Present

- Conception, project management & coordination and research design within a Public Private Partnership collaboration project investigating in the restoration of acetate based audiovisual media
- Practical implementation of chemical, optical and mechanical tests on sample materials retrieved from international institutions
- Documentation, evaluation and analysis of results
- Preparatory research for market implementation

Phonogrammarchiv, Austrian Academy of Sciences, Vienna

1999 - 2005

Audio Engineer

- Audio transfers, restoration & mastering for CD-editions
- Workflow conception for digital archive (audio & video)
- Responsible for equipment and machine alignment & maintenance

- 1998 - 1999 *Phonogrammarchiv, Austrian Academy of Sciences, Vienna*
Scientific project employee
- Pilot study and conception of a scientific video archive
 - First evaluation of linear digital video archiving, implementation tests
- 2001 – Present (intermittently) *University of Vienna, Austria, Institute of Musicology*
Guest lecturer
- Course "Schallträgerpraktikum I & II" (hands-on training on audio-visual carriers)
- 2007 - Present *University of Applied Sciences HTW Berlin, Germany*
Guest lecturer
- Course: " Analogue Audio Media: Handling, Digitization and Restoration of Magnetic Tapes and Disc Records“ / Analoge Audio Medien: Behandlung, Digitisierung und Restaurierung von Tonbändern und Schallplatten
- 2013 – Present (intermittently) *University of Applied Sciences HDK Berne, Switzerland*
Guest lecturer
- Course: "Analogue Audio Media: Handling, Digitization and Restoration of Magnetic Tapes and Disc Records“ / Analoge Audio Medien: Behandlung, Digitisierung und Restaurierung von Tonbändern und Schallplatten
- 1988-1999 *Konzerthaus Vienna (Austrophon-Studio, later Sing-Sang Records Richard Oesterreicher jun. KG), Austria*
Recording, Mixing and Mastering engineer
- Setup, preparatory work, realization and finalization of various recordings of different genres (Classical, Jazz, Pop, Musical, Film- and Video sound and synchronization, location recording)
 - Wide experience in recording of all genres, harddisk-recording, editing, analogue mastering (incl. for LP) and digital mastering, including machine alignment and basics of equipment servicing.
- 1995-2000 *Jazz Club Porgy & Bess, Vienna, Austria*
PA Mixing engineer, light technician, free lance (part time)
- Setup, preparatory work, stage miking, monitoring, FOH mixing of various international Jazz live concerts
- 2000-2007 *Hey-U Media Group Vienna (Filmstadt Wien), Austria*
Recording/Mixing/Mastering/PA/Stage Management engineer, free lance (part time)
- Setup, preparatory work, stage miking, sub-mixes, monitoring, FOH mixing, recording, mastering, realization and finalization of various studio and live events of different genres (Classical, Jazz, Pop, Musical)
 - Experience in event technology and management, mixing / sub-mixing for monitoring, FOH, live video broadcast, live radio transmission

Education

- 2017 *University of Vienna, Austria*
- PhD in Ethnomusicology**
- Dissertation: *Restoration of Historical Audio Materials with Focus on Field Recordings from the Phonogrammarchiv of the Austrian Academy of Sciences*
- 1998 **Master's degree in Ethnomusicology**
- Thesis: *Aesthetic Aspects of Sound Recordings in the Classical Music Field and their Historical Development.*
 - Secondary subject: Theatre Studies, focus on music theatre
- 1996 - 1997 *Higher-level secondary commercial college Judenburg, Austria*
- Extension course for management and organization**
- Graduation and assessment center with distinction
- 1987 - 1989 *School of Audio Engineering (SAE), Vienna*
- Diploma "audio engineer"**
- 1979 - 1987 *High School BG/BRG Judenburg, Austria*
- IB Diploma**
- 1979 - 1987 *Music Schools Judenburg & Zeltweg, Austria*
- Classical instrumental studies on the piano**

Core Competencies

Extensive experience

in the field of large-scale productions (orchestra, big band, etc.) studio and live, stage management

Extensive experience

with professional analog & digital recording/ mixing/ mastering equipment, microphones, field equipment, etc.

Specialist for audio restoration

(analog & digital)

Specialist for highest quality transfer

of most audio formats, historic and recent

Rich experience in measuring / modifying dedicated sound equipment

Research Projects

Ongoing:

Technical development and organization of metadata:

Optimization of the reproduction of analog and digital audio formats, long-term preservation, restoration of audio media, metadata, dissemination.

Patent

The Phonogrammarchiv of the Austrian Academy of Sciences in Vienna has together with the Austrian Institute for Chemistry and Technology OFI developed a method for the chemical restoration of acetate media. The method has been patented and will be further developed as part of a **public-private-partnership project in cooperation with NOA GmbH Vienna** for industrial applications.

Oesterreichische Akademie der Wissenschaften : *Method for Reconditioning Data Carriers.*

Inventors: P. Liepert, L. Spoljaric-Lukacic, N. Wallaszkovits. Appl. filed 23.12.2011, published 05.07.2012. IPC: G11B 23/50 (2006.01), G03D 15/00 (2006.01). Pub. No.: WO/2012/088553

Horizon 2020 “NEMOSINE”

In this context, the Phonogrammarchiv will participate as partner within the European Union Horizon 2020 project NEMOSINE: ***Innovative packaging solutions for storage and conservation of 20th century cultural heritage of artefacts based on cellulose derivates***, starting in February 2018.



Recent:

InMuSWB European Commission: Introducing interdisciplinarity in music studies in the Western Balkans in line with European perspective, EACEA-TEMPUS IV

European Acoustic Heritage European Commission: Restudy of urban soundscapes of Vienna, EACEA-P5-Culture Unit, Culture Programme

TAPE European Union Culture 2000: Training for Audiovisual Preservation in Europe

DELOS - Network of Excellence on Digital Libraries



Training for Audiovisual Preservation in Europe



Digitization Projects

Concept, design, management and implementation of high quality transfer and digitization projects for international partner institutions:

Romanian Academy of Sciences, Bucharest, Romania

- **Digitization** of the Institutul de Etnografie si Folclor „Constantin Brăiloiu”

Albanian Academy of Sciences, Tirana

- **Digitization** of the Sound Archive of the Institute for Cultural Anthropology of the Centre for Albanological Studies

University of the Philippines

- **Digitization** of the José Maceda Collection of the University of the Philippines
- For this extraordinary project, the Phonogrammarchiv Vienna was awarded the **UNESCO/Jikji Memory of World Prize**, the first prize in the field of documentary heritage

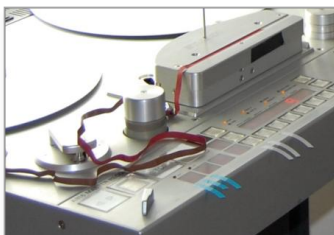
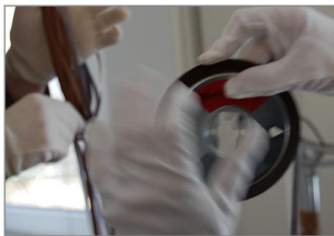
Academy of Sciences St. Petersburg, Russia

- **Digitisation** of the Phonogrammarchiv

Training & Consultancy

Archival **hands - on training** courses and **project consultancy** for:

Sudan National Radio Station (SNBS), Radio Voice of Vietnam (VOV), Sri Lanka Broadcasting Corporation (SLBC), Radio Nepal (RNE), Austrian National Library, German Museum Munich, Normal University of Taiwan, Chinese Academy of Arts CAA Beijing, Fonoteca Nacional de México, Señal Memoria - Colombian National Archive Initiative
and numerous other National and International institutions.



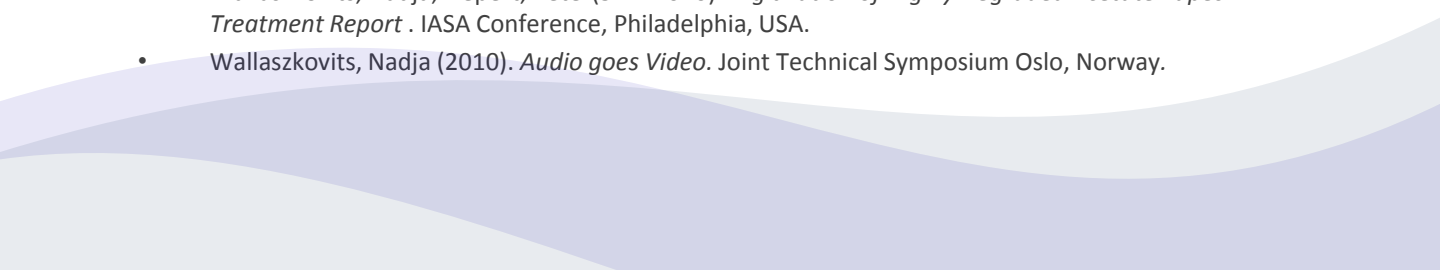
Workshops & Tutorials

Selection of recent lectures given in the context of conferences (*full list on request*):

- Wallaszkovits, Nadja (05.06.2016) Workshop (chair): *Expert Transfer Techniques: A Special Focus on Mechanical Discs*. 140th AES Convention Paris 2016, France.
- Wallaszkovits, Nadja (04.- 06.11.2015) Workshop: *Restoration: From Analogue Transfer to Digital Signal Enhancement*. Semana del sonido (Sound week), University of Bogotá, Colombia.
- Wallaszkovits, Nadja (31.10.2015) *Special Challenge Metadata: Multimedia-Based Preservation of the Collection Oskar Sala. How to Safeguard Hitchcock's Birds*. 139th AES Convention New York 2015, USA.
- Wallaszkovits, Nadja (7.5.2015) Tutorial: *Digital Transfer of the Armando Leça Folk Music Collection*. 138th AES Convention Warsaw 2015, Poland.
- Wallaszkovits, Nadja (20.11.2014) Workshop: *Digitisation of the three oldest magnetic tapes of Norway: A special challenge*. 29th Tonmeistertagung ,VDT Int. Convention 2014, Cologne, Germany.
- Wallaszkovits, Nadja (10.10.2014) Workshop (participant): *The End Is Near! The Pressing Need to Preserve Historic Analog Sound Recordings: An Overview of Strategies and Best Practices*. 137th AES Convention, Los Angeles, USA.
- Wallaszkovits, Nadja (20.10.2013): Archival & Restoration Track: *A Contribution to the History of Field Tape Recording, 1939-1940*. 135th AES Convention, New York, USA.
- Wallaszkovits, Nadja (09.10.2013) Workshop: *Digitisation of Magnetic Audio Tape*. IASA Annual Conference, Vilnius, Lithuania.
- Wallaszkovits, Nadja (09-10.10.2012) Workshop: *Issues of the replay path. Part 1 Tape/ Part 2 Disc*. IASA Annual Conference, New Delhi, India.
- Wallaszkovits, Nadja (29.10.2012) Workshop: *The Replay of Historical Magnetic Tape - More than Pressing the Play Button*. 133th AES Convention San Francisco 2012, USA.
- Wallaszkovits, Nadja (5.-06.09.2011): Workshop: *Handling problems in digitizing tapes and discs*. IASA Annual Conference 2011, Frankfurt, Germany.
- Wallaszkovits, Nadja (13.12.2011). *Workshop on Audio Restoration*, AES Italian Section, Rom/Italy.
- Wallaszkovits, Nadja (4.11.2010) *Digital Audio Restoration*. IASA Conference, Philadelphia, USA.
- Wallaszkovits, Nadja (26.11.2010) *From Carrier Restoration to the Optimized Transfer and Beyond*. 26. Tonmeistertagung, VDT Intern. Convention, 2010, Leipzig, Germany.

Conference Presentations

Small selection of presentations without conference proceedings publication (*full list on request*):

- Wallaszkovits, Nadja (2016): *News from the Lab: Setting the Framework from Mechanical Refreshment to De-acidification*. IASA Annual Conference 2016, Washington, USA.
 - Wallaszkovits, Nadja (2015): *Between Standards and Arts: Digitization and Restoration of Audio Material – A Balancing Act between Authenticity and Manipulation?* 1st International Workshop on Digital Philology for the Preservation of Sound Archives, 2015, Piazzola sul Brenta, Italy.
 - Wallaszkovits, Nadja (2015): *Transferring Archival Research Collection into the Digital Domain: A Special Challenge*. Harvard University Strategic Talk, Nov. 2nd 2015, USA.
 - Wallaszkovits, Nadja (2013): *Spareparts and Equipment Availability in Audiovisual Archiving*. IASA Annual Conference, Vilnius, Lithuania.
 - Wallaszkovits, Nadja; Liepert, Peter(5.11.2010): *Digitization of Highly Degraded Acetate Tapes - A Treatment Report* . IASA Conference, Philadelphia, USA.
 - Wallaszkovits, Nadja (2010). *Audio goes Video*. Joint Technical Symposium Oslo, Norway.
- 

Publications

Patents:

- Oesterreichische Akademie der Wissenschaften: *Method for Reconditioning Data Carriers*. Inventors: P. Liepert, L. Spoljaric-Lukacic, N. Wallaszkovits. Appl. filed 23.12.2011, published 05.07.2012. IPC: G11B 23/50 (2006.01), G03D 15/00 (2006.01). Pub. No.: WO/2012/088553

Selection of recent papers only (*full list on request*):


- Wallaszkovits, Nadja: *Fighting the Decay: Permanent Refreshment of Acetate Media*. Proceedings of the Joint Technical Symposium JTS Singapore 2016, IU Press. In print.
 - Wallaszkovits, Nadja; Engel, Friedrich: *A Digitalização da Coleção Armando Leça: Revelando Tesouros Escondidos da Música Popular Portuguesa – The Digitisation of the Collection Armando Leça: Revealing Hidden Treasures of Portugese Folk Music*. In: Pestana, Maria do Rosário (Hg.), *The Alentejo: Voices and Aesthetics in 1939/40. A Critical edition of Armando Leça's Sound Recordings*. Vila Verde: Tradisom, S. 46-69. 2015.
 - Wallaszkovits, Nadja: *Zur Neuübertragung der Tondokumente aus der Sammlung Georg Kotek/ On the re-recording of the sound documents of the collection Georg Kotek*. In: Petermayr, Klaus. (Hrsg.), *Die Volksliedersingen der Ravag in Oberösterreich. Bad Ischl 1934 - Pöstlingberg 1936*. Oberösterreich. Volksliedwerk/ Österr. Volksliedwerk/ Phonogrammarchiv; Linz, 2014. S. 17-22 .
 - Wallaszkovits, Nadja: *Digitisation of Small Sound Collections: Problems and Solutions*. In: Duranti, L.; Shaffer, E. (eds.): *Proc. "The Memory of the World in the Digital Age: Digitization and Preservation. An international conference on permanent access to digital documentary heritage"* 26-28.9. 2012, Vancouver/CANADA, p.1440-1451. 2013
 - Wallaszkovits, Nadja; Heinrich Pichler: *Selected problems of noise reduction encoded analogue consumer tape formats for the archival transfer /Ausgewählte Probleme mit Rauschunterdrückungsverfahren bei der Archivierung analoger Consumer-Tonbandformate*. Conference Proceedings, 27. Tonmeistertagung, VDT International Convention, Köln/Germany. ISBN 978-3-9812830-3-7, S. 338 – 356. 2012
 - Wallaszkovits, Nadja; Franz Lechleitner; Heinrich Pichler : *Selected Playback Problems of Historical Grooved Media*. In: Proceedings of the 130th AES Convention, 2011 May 13-16, London, UK. Convention Paper 8376, 1-7.
 - Wallaszkovits Nadja: *Digitisation of Research Sound Collections: Practical Application of IASA Guidelines in Small Scale Digitisation Projects*. IASA Journal 35 (June 2010): 89–98
 - Wallaszkovits Nadja: *Digital Restoration of Historical Audio Recordings: A Balancing Act between Authenticity and Manipulation / Digitale Restaurierung historischer Tonaufnahmen: Eine Gratwanderung zwischen Authentizität und Manipulation*. In: Proceedings of the 25. Tonmeistertagung, VDT International Audio Convention, 13th-16th Nov. 2008, Congress Center Leipzig. Leipzig: Bildungswerk des Verbandes Deutscher Tonmeister, 598-610.
 - Wallaszkovits, Nadja & Heinrich Pichler: *Transfer of Digital Original Tapes to File-Based Archival Storage: Practical Experience with R-DAT / Archivierung digitaler Audiobänder: Praktische Erfahrungen mit R-DAT*. In: Proceedings of the 25. Tonmeistertagung, VDT International Audio Convention, 13th-16th Nov. 2008, Congress Center Leipzig. Leipzig: Bildungswerk des Verbandes Deutscher Tonmeister, 611-622.
 - Wallaszkovits, Nadja & Heinrich Pichler: *Replay Problems of PCM Adapter Based Digital Tapes /Wiedergabeprobleme bei PCM Adapter Digitalbändern*. In: Proceedings of the 25. Tonmeistertagung, VDT International Audio Convention, 13th-16th Nov. 2008, Congress Center Leipzig. Leipzig: Bildungswerk des Verbandes Deutscher Tonmeister, 623-640.
- 

Publications

- Co Author for IASA TC04: Guidelines on the Production and Preservation of digital audio objects (= IASA Technical Committee - Standards, Recommended Practices and Strategies, IASA-TC 04), second edition, 2009.
- Wallaszkovits, Nadja & Heinrich Pichler „Some Improvements of the Playback Path of Wire Recorders“ In: Proceedings of the 126th AES Convention, 2009 May 7-10, Munich, Germany. Convention Paper 7698, 1-7.
- Wallaszkovits, Nadja & Christian Liebl. 2009. “UMID – Unique Material Identifier”. (DPE Publications – Briefing Papers). Online: www.digitalpreservationeurope.eu/publications/briefs/
- Wallaszkovits, Nadja, Franz Pavuza & Heinrich Pichler (2007) „Method Comparison of Pick-Up and Preprocessing of Bias Signal for Wow and Flutter Correction“. In: Proceedings of the 122nd AES Convention, 5th-8th May, Vienna, Austria Convention Paper 7011, 1-12.
- Wallaszkovits, Nadja (2007) „Case Study: Small-Scale Approaches for Digitisation Projects in Eastern Europe (Bucharest, Tirana, St. Petersburg)“. Online publication of the conference : Prestospace, STAG:SA Digital storage for small a/v archives London, Friday 3rd Nov. 2006. <http://wiki.prestospace.org/uploads/Main/nadia.pdf>
- Wallaszkovits, Nadja & Dietrich Schüller (2007) „Quality Control in (Outsourced) Preservation Projects“. Online publication of the conference: Unlocking Audio: Sharing Experience of Mass Digitisation. London, British Library, 26 th-27 th October 2007. <http://www.bl.uk/collections/sound-archive/pdf/unlockingaudio/wallaszkovits.pdf>

Discography

Selection of recent recordings, transfers, audio restorations and masterings only (*full list on request*):

- *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences. The Complete Historical Collections 1899-1950*, Dietrich Schüller (ed.), Wien: VÖAW. Series 1-12
 - *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences: Mechanical Music Instruments*. Dietrich Schüller (ed.). Wien: VÖAW. Series 1-7
 - *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences: Roma Culture*. cooperation with Romani-Projekt, Institut für Sprachwissenschaft, Karl-Franzens-Universität Graz (Dr. Dieter W. Halwachs): Romani Project CD 1-3, Computer-Language Training Series 1-4
 - *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences. Special Series*. Julia Ahamer, Christiane Fennesz-Juhasz, Helmut Kowar (Eds.) Series 1
 - *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences. Field Recordings*. Series 1
 - *Music from a new Veneto manuscript c. 1440*. Klingende Forschung 5, Abteilung Musikwissenschaft des Instituts für kunst- und musikhistorische Forschungen (ed.). Verlag der Österreichischen Akademie der Wissenschaften, 2014.
 - *Sound Documents from the Phonogrammarchiv of the Austrian Academy of Sciences, Mechanical Music Vol. 8: Music around 1600: The automatons of the Kunstkammer of the Kunsthistorisches Museum Vienna*. Verlag der Österreichischen Akademie der Wissenschaften, 2013.
 - *Kämpfe der Leidenschaften und des Verstandes - Schuberts späte Werke für Klavier zu vier Händen/ Schubert's late compositions for piano duet*. Klingende Forschung 4, Abteilung Musikwissenschaft des Instituts für kunst- und musikhistorische Forschungen (ed.). Verlag der Österr. Akademie der Wissenschaften, 2013.
- 

Discography

- *Franz Schubert: Adrast D 137. Einzelnummern und Entwürfe zu einer Oper/ First complete recording of Franz Schubert's opera project.* Concert documentation of the live performance of the reconstructed unfinished fragments. Klingende Forschung 1, Abteilung Musikwissenschaft des Inst. für kunst- und musikhist. Forschungen (ed.). Verlag der Österr. Akademie der Wissenschaften, 2012.
- *Sitularia: Klänge aus der Hallstattzeit/ Sounds from the Hallstatt-Time.* Reihe: Mitteilungen der Prähistorischen Kommission, Band: 76, 2011. ISBN13: 978-3-7001-7002-0.
- Knochenklang - Paläolithisches Ensemble: Klänge aus der Steinzeit/ Bone Sounds – Paäolithic Ensemble: Sounds from the Stone Age. Reihe: Mitteilungen der Prähistorischen Kommission, Band: 36, 2000. ISBN13: 978-3-7001-2961-5

References

Selection of studio and live sound references:

Classical Music Studio Recordings:

José Carreras, Edita Gruberova, Vincence la Scola, Vienna Philharmonic Orchestra, Vienna Symphonic Orchestra, Orchestra of Vienna Volksoper, Orchestra of Vereinigte Bühnen Vienna, etc.

Musicals Studio Recordings:

Phantom of the Opera, Elisabeth, La cage aux Folles, My Fair Lady, Kiss of the Spider Woman, 42nd Street, Andrew Lloyd Webber's Aspects of Love, Alan Parsons Freudiana, Takarazuka Ensemble Music Productions

Jazz Studio Recordings:

Vienna Art Orchestra, Karl Ratzer, Harry Pepl, Dave Liebman, Richard Oesterreicher ORF Big Band, etc.

Pop & Entertainment Music:

Various Austro-Pop musicians, e.g. Rainhard Fendrich, Wolfgang Ambros, Toni Stricker, numerous ORF Broadcast music productions for TV shows and signations

Film Sound and Synchronisation:

Sound recording, synchronization & mixing for industrial, promotional and documentary films /videos, e.g. *Die Presse* (cinema advertising spot), *Die Brennerautobahn* (documentary film), Koloman Handler (industrial documentary film), Helvetia-Versicherungen (cinema and TV advertising spot), etc.

Live Sound Experience:

Aswad, Les Rita Mitsuko, Incognito, Alan Holdsworth, Pierre Favre, Karl Ratzer, Christmas in Vienna , Mauthausen Memorial Concert, Schönbrunn Concert for Europe, EU-Ministerial conferences in Vienna and Klagenfurt, etc. as well as numerous international Jazz groups and musicians

Board Memberships

International Association of Audiovisual Archives (IASA) <http://www.iasa-web.org/>

Vice Chair Technical Committee, Member of Training and Education Committee

Audio Engineering Society (AES) <http://www.aes.org/>:

President Elect

Co- Chair Technical Committee on Archiving, Restoration & Digital Libraries

Member of European Convention Organization Committee

