

Taphos 2017

Programme (Overview)

Thursday, 14 September

Pre-meeting excursion, Neogene of northern Vienna basin and Eggenburg. Departure 8 am; meeting point is the side entrance of the Natural History Museum (NHM) Vienna, Burgring 7 (see maps 1 and 2); return to the NHM at 6 pm.

Icebreaker at Natural History Museum (use main entrance to the museum, see maps 1 and 2); starts at 6 pm (registration is possible during Icebreaker).

Friday, 15 September

All events of this day take place at the Geocenter of the Univ. of Vienna, Althanstrasse 14, 1090 Vienna (see maps 1 and 3)

Registration (starting at 8 am)

Opening of the meeting at 8.45 am at Lecture Hall 2 (HS2) of the Geocenter

Scientific sessions (talks and posters), starting at 9 am, Lecture Hall 2 (HS2), Geocenter

Evening barbecue at the Geocenter, starting at 6 pm

Saturday, 16 September

Scientific sessions (talks and posters), starting at 9 am, Lecture Hall 2 (HS2), Geocenter, Althanstrasse 14, 1090 Vienna (see maps 1 and 3).

Closing of the meeting and future plans, starting at approximately 15.45

Dinner at a Viennese Heurigen (traditional wine tavern), starting at 8 pm (see maps 1 and 4)

Sunday, 17 September

Post-meeting excursion, Neogene of southern Vienna basin. Departure 8 am; meeting point is the side entrance of the Natural History Museum (NHM) Vienna, Burgring 7 (see maps 1 and 2); return to the NHM at 6 pm.

Taphos 2017

Scientific programme

(**Bold names** indicate presenters)

Friday, 15 September 2017

- 8.00 Registration
8.45-9.00 Welcome and opening
9.00-9.30 **Keynote lecture**
Magnus Ivarsson
The fossil record of igneous rock

Friday first morning session

Chairs: Juan C. Braga

- 9.30-9.45 **Miguel Iniesto**, Christophe Thomazo, Emmanuel Fara, Emmanuelle Vennin, Nicolas Olivier, Gilles Escarguel and Arnaud Brayard
Exceptional preservation of the Paris Biota (Spathian, USA), the oldest Early Triassic marine Konservat-Lagerstätte
9.45-10.00 **Clément Jauvion**, Sylvain Bernard, Pierre Gueriau and Sylvain Charbonnier
Unravelling fossilisation processes in the La Voulte-sur-Rhône Lagerstätte from the study of exceptionally preserved crustaceans
10.00-10.15 **Patrick Meister**
Primary dolomite formation on a Triassic coastal alluvial plain
10.15-11.00 coffee break and posters

Friday second morning session

Chairs: Davide Bassi & Emilia Jarochowska

- 11.00-11.15 **Julio Aguirre**, Oscar Ocaña, Rosa Domènech, Jordi Martinell, Eduardo Mayoral, José Noel Pérez-Asensio and Ana Santos
Concentrations of cnidarians in early Pliocene deposits of the Manilva Basin (Málaga, SW Spain)
11.15-11.30 **Mathias Harzhauser**, Ana Djuricic, Oleg Mandic, Martin Zuschin and Norbert Pfeifer
*Taphonomy and population structure of an early Miocene *Crassostrea* shell bed based on the analysis of 3D point cloud data*
11.30-11.45 **James H. Nebelsick** and Jeffrey T. Thompson
Taphonomy and sedimentation of mass accumulations in siliciclastic dominated environments: A case study from the Miocene echinoid dominated Button Beds in Central California
11.45-12.00 **Susanne Mayrhofer**, Alexander Lukeneder and Leopold Krystyn
Depositional conditions of Carnian ammonoid shell-concentrations decoded by applying 3-D visualization techniques combined with classical taphonomic analyses
12.00-12.15 **Juan C. Braga** and Fernando Sola
An exceptional concentration of empty aragonite-shell molds (Quaternary, Almería-Níjar Basin, SE Spain)

12.15-12.30 **Theresa Nohl**, Axel Munnecke and Emilia Jarochowska
Taphonomic bias in limestones and marls – a quantitative palaeontological approach to the genesis of limestone-marl alternations

12.30-14.00 lunch break

14.00-14.30 **Keynote lecture**
Silvia Danise
Taphonomy of large marine vertebrates: from modern whale falls to the fossil record

Friday first afternoon session

Chair: Björn Berning

14.30-14.45 **Raúl Esperante** and Orlando Poma
Marine mammal preservation in a siliciclastic transgressive succession, Middle Miocene Pisco Formation, Perú

14.45-15.00 **Caitlin E. Syme**, Stephen F. Poropat, Jay P. Nair and Travis Tischler
*Taphonomy of the sauropod dinosaur *Austrosaurus mckillopi* type individual: a short-lived saurian deadfall in the Early Cretaceous Eromanga Sea*

15.00-15.15 **Karina Grömer**
Organic remains from archaeological contexts. - Forensic taphonomy applied to prehistoric graves

15.15-16.00 coffee break and posters

Friday second afternoon session

Chairs: Adam Tomašových & Paolo G. Albano

16.00-16.15 **Diego A. García-Ramos** and Martin Zuschin
Cycles of brachiopod pavements in a Pliocene mixed carbonate - siliciclastic Prograding Wedge (SE Spain): implications for sequence stratigraphy

16.15-16.30 **Emilia Jarochowska**, David C. Ray, Philipp Röstel, Graham Worton and Axel Munnecke
Harnessing the stratigraphic bias at the section scale: conodont diversity in the Homerian (Silurian) of the Midland Platform, England

16.30-16.45 **Rafał Nawrot**, Daniele Scarponi, Michele Azzarone, Alessandro Amorosi, Jacalyn M. Wittmer, Troy A. Dexter, Kristopher Kusnerik, Roger W. Portell and Michał Kowalewski
Apparent mass extinctions produced by stratigraphic architecture

16.45-17.00 **Vanessa Julie Roden** and Wolfgang Kiessling
Abundant taxa determine beta diversity

17.00-18.00 poster session

18.00-22.00 barbecue

Saturday, 16 September 2017

9.00-9.30 **Keynote lecture**
Michael Stachowitsch
Death, Destruction & Mayhem – Anoxia revisited

Saturday first morning session

Chairs: James H. Nebelsick & Oleg Mandic

9.30-9.45 **Paolo G. Albano**, Ivo Gallmetzer, Alexandra Haselmair, Adam Tomašových, Michael Stachowitsch and Martin Zuschin
*Historical ecology of the introduction of the alien bivalve *Anadara transversa* in the Adriatic Sea*

9.45-10.00 **Adam Tomašových**, Ivo Gallmetzer, Alexandra Haselmair and Martin Zuschin
Evaluating mixing, burial and production of mollusks during the Holocene on the NE Adriatic shelf (southern Gulf of Trieste)

10.00-10.15 Madhura Bhattacharjee, **Devapriya Chattopadhyay**, Bidisha Som and Ammu Sankar
Reliability of death assemblages in predicting depositional processes: Insights from a modern tropical siliciclastic marine setting

10.15-10.30 **Johann Hohenegger**
New methods for comparing living associations and death assemblages

10.30-11.15 coffee break and posters

Saturday second morning session

Chairs: Julio Aguirre & Devapriya Chattopadhyay

11.15-11.30 **Tobias B. Grun** and James H. Nebelsick
Taphonomy as a proxy for stable shell constructions

11.30-11.45 **Oksana Malchyk**
Nautilid taphomorphs as a source of palaeobiological information: an example from the Upper Cretaceous of Poland

11.45-12.00 **Wolfgang Eder**, Johann Hohenegger and Antonino Briguglio
*Limitation of biometric studies on *Heterostegina* due to mixing of different megalospehric morphotypes*

12.00-12.15 **Julian Huemer**, Steffen Kiel, Jörn Peckmann and Martin Zuschin
Brachiopod Communities within Tectonic Crevices in the Upper Triassic Dachstein Formation

12.15-12.30 **Michał Krobicki**
Taphonomic record of Mesozoic crustacean remains – Late Jurassic (Oxfordian) and Early Cretaceous (Valanginian) case studies

12.30-14.00 lunch break

14.00-14.30 **Keynote lecture**
Alfred Galik
Animal remains and their potential in prehistorical and historical contexts

Saturday afternoon session

Chairs: Silvia Danise

- 14.30-14.45 **Patrick J. Orr**, Laetitia B. Adler, Susan R. Beardmore, Heinz Furrer, Maria E. McNamara, Enrique Peñalver and Ragna Redelstorff
“Stick ‘n’ peel”: how unusual patterns of disarticulation and loss of completeness in fossil vertebrates originate as a result of carcasses adhering to the substrate during decay
- 14.45-15.00 **Oleg Mandic**, Daria Carobene, Mathias Harzhauser, Ursula B. Göhlich, Reinhard Roetzel, Christoph Spötl and Michael Meyer
Taphonomy of the Bullendorf mammoth site in Lower Austria
- 15.00-15.15 M. Dolores Pesquero, Dores Marin-Monfort and **Yolanda Fernández-Jalvo**
Substrates, microbes and preservation
- 15.15-15.45 coffee break and posters
- 15.45-17.00 closing of the meeting and future plans
- 20.00 Dinner at a Viennese Heurigen

Posters

(**Bold names** indicate presenters)

Gáspár Albert, **Gábor Botfalvai** and Attila Ósi: *Making high resolution 3D model of a bonebed from GPS data to assist taphonomical analyses - case study of the Santonian vertebrate site of Iharkút (Hungary)*

Alejandra M. Andrada, **Dario G. Lazo** and Graciela S. Bressan: *Taphonomy of axiid decapods within early diagenetic carbonate concretions from the Agrio Formation (Lower Cretaceous), Neuquén Basin, west-central Argentina*

Davide Bassi, Juan C. Braga, Julio Aguirre, Masato Owada, Jere H. Lipps, Hideko Takayanagi and Yasufumi Iryu: *Relations between landlords and tenants: modern macroid/rhodolith growth rate and boring bivalve activity*

Davide Bassi, Renato Posenato, James H. Nebelsick, Masato Owada, Enrica Domenicali and Yasufumi Iryu: *Rare example of boreholes in Lower Jurassic marine shallow-water lithiotid bivalves*

Mélani Berrocal-Casero, Fernando Barroso-Barcenilla and Fernando García Joral: *Diagenetic compression as a key to interpret life position in brachiopods*

Mélani Berrocal-Casero, Julia Audije-Gil, Juan Alberto Pérez-Valera, Vanda F. dos Santos and Manuel Segura: *First data on micropreservation of the Middle Triassic Vertebrate remains of Riba de Santiuste area (Guadalajara, Spain)*

Giulia Bosio, Elisa Malinverno, Anna Gioncada, Karen Gariboldi, Daniela Basso, Thomas DeVries, Claudio Di Celma, Sergio Andò, Fabrizio Berra, Mario Urbina and Giovanni Bianucci: *Taphonomic and diagenetic history of the Miocene mollusks in the Pisco Formation Fossil-Lagerstätte (Ica Valley, Peru)*

Gábor Botfalvai and Attila Ósi: *Ankylosaur mass death assemblage from the Late Cretaceous of Iharkút (Hungary) and its effect on an ancient river ecosystem*

Valentina Brandolese, Davide Bassi and Renato Posenato: *Taphonomic analysis of Lower Jurassic larger-bivalve accumulations in the Trento Platform*

Claudia Buhlemann, Davide Bassi and **James H. Nebelsick**: *Microtaphofacies of Upper Oligocene ramp depositional systems from Northern Italy*

Francisco José Poyato-Ariza, Hugo Martín-Abad, Anabel López-Archilla, Michael Pittman, Miguel Iniesto, Thomas G. Kaye and **Ángela D. Buscalioni**: *Combining experimental taphonomy, laser-stimulated fluorescence imaging, and exceptional fossils: fish eyes from Las Hoyas (Early Cretaceous, Spain)*

Gabriela Calábková, Martin Ivanov and Jiří Chlachula: *Microbial alterations of Late Pleistocene fossil mammal bones from permafrost environments of northern Yakutia (NE Siberia)*

Patricia Canales Brellenthin, Yolanda Fernández Jalvo and **Paloma Sevilla**: *How does digestion affect bat bones? An experimental approach*

Tarcila Franco, **Davide Bassi**, Alex Cardoso Bastos and Gilberto M. Amado-Filho: *Taphonomic process interaction in mesophotic rhodoliths from the Vitoria Trindade Seamount Chain, South Atlantic*

Sara García-Morato and **Yolanda Fernández-Jalvo**: *Small mammal taphonomy from PRERESA Late Pleistocene riverside site (Madrid, Spain)*

Tobias B. Grun: *Learning from the present, understanding the past: drill hole recognition for the fossil record*

Darío G. Lazo, Mariano Remírez, Ernesto Schwarz and Ben Thuy: *Taphonomy of brittle stars associated with a tempestite bed from the Lower Cretaceous Agrío Formation of the Neuquén Basin, west-central Argentina*

Oscar Emilio Rodrigo Lehmann, Osvaldo Velan and **Darío G. Lazo**: *CT scanning as a tool for taphonomic analysis of shell beds: a case study on small irregular echinoid concretionary accumulations from the upper Hauterivian of the Neuquén Basin, west-central Argentina*

Oksana Malchyk, Magdalena Łukowiak and Marcin Machalski: *Sponge borings on the Late Cretaceous nautilids from Poland and western Ukraine: taphonomic implications*

Dores Marin-Monfort, Ana Fagoaga, Cristo M. Hernández, Bertila Galván and **Yolanda Fernández-Jalvo**: *Small mammal taphonomy of Unit Xb from El Salt Middle Palaeolithic site of Eastern Iberia*

Rafał Nawrot and Barbara Studencka: *Museum collections versus standardized bulk samples: a case study of the Middle Miocene bivalves from Vanzhuliv and the Zhabiak ravine (western Ukraine, Central Paratethys)*

Jan-Filip Páßler, Kristina Weber, Anna Sabbatini, Alessandra Negri, Jan Steger, Martin Zuschin, Bella S. Galil and Paolo G. Albano: *Biotic and abiotic changes of the Mediterranean shelf of southern Israel*

Alexander H. Parkinson, **Yolanda Fernández-Jalvo** and Peter Andrews: *Global weathering: the experiment and the protocols*

Katarzyna Płonka, Alfred Uchman and Michael A. Kaminski: *Taphonomy of the large foraminifer *Arthrodendron Ulrich, 1904* based on physical experiments*

Renato Posenato, Michele Morsilli, Davide Bassi and Stefania Guerzoni: *Taphonomy of lower Aptian (Cretaceous) *Chondrodonta (Bivalvia)* carpets in the Apulia Carbonate Platform (Gargano Promontory, southern Italy)*

Alejandra Rojas, Mariana Demicheli and Sergio Martínez: *Taphonomy of the Late Pleistocene marine molluscan assemblages from Uruguay*

Lucía Rueda Domínguez, Dolores Pesquero, Dores Marin-Monfort and **Yolanda Fernández-Jalvo**: *Comprehension of small compression!*

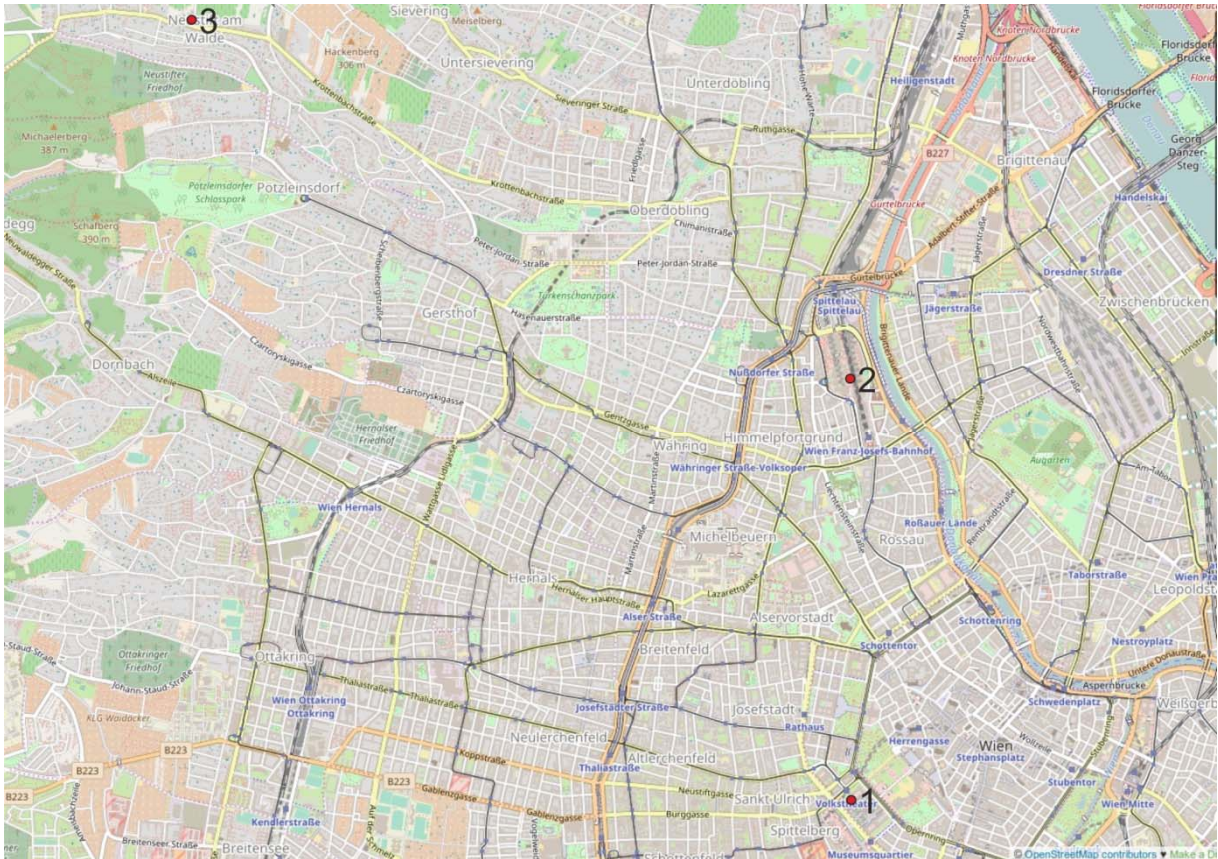
Frederico Tapajós de Souza Tâmega, Paula Spotorno-Oliveira, Ricardo Coutinho, Paula Dentzien-Dias, Leandro Manzoni Vieira and **Davide Bassi**: *First occurrence of shallow-water macroids on the southern coast of Brazil*

Martin Ubilla, Andrés Rinderknecht and Mariano Verde: *Taphonomy and Late Pleistocene-Early Holocene mammal extinction (southern Uruguay, South America)*

Sven Zille, Tobias B. Grun and **James H. Nebelsick**: *Post-mortem encrustation patterns of *Clypeaster rosaceus* tests from San Salvador, The Bahamas and their effects on preservation potentials*

Map 1

(City map with sites of the meeting)



1 Natural History Museum Vienna, Burgring 7, 1010 Vienna

Starting point for pre- and post excursion (Thursday and Sunday)

Site of the Icebreaker (Thursday evening)

2 Geocenter, UZAll, University of Vienna, Althanstrasse 14, 1090 Vienna

Scientific sessions (Friday and Saturday)

Barbecue (Friday evening)

3 Heurigen Fuhrgassl-Huber, Neustift am Walde 68, 1190 Vienna

Conference dinner (Saturday evening)

Map 2 (Natural History Museum Vienna)

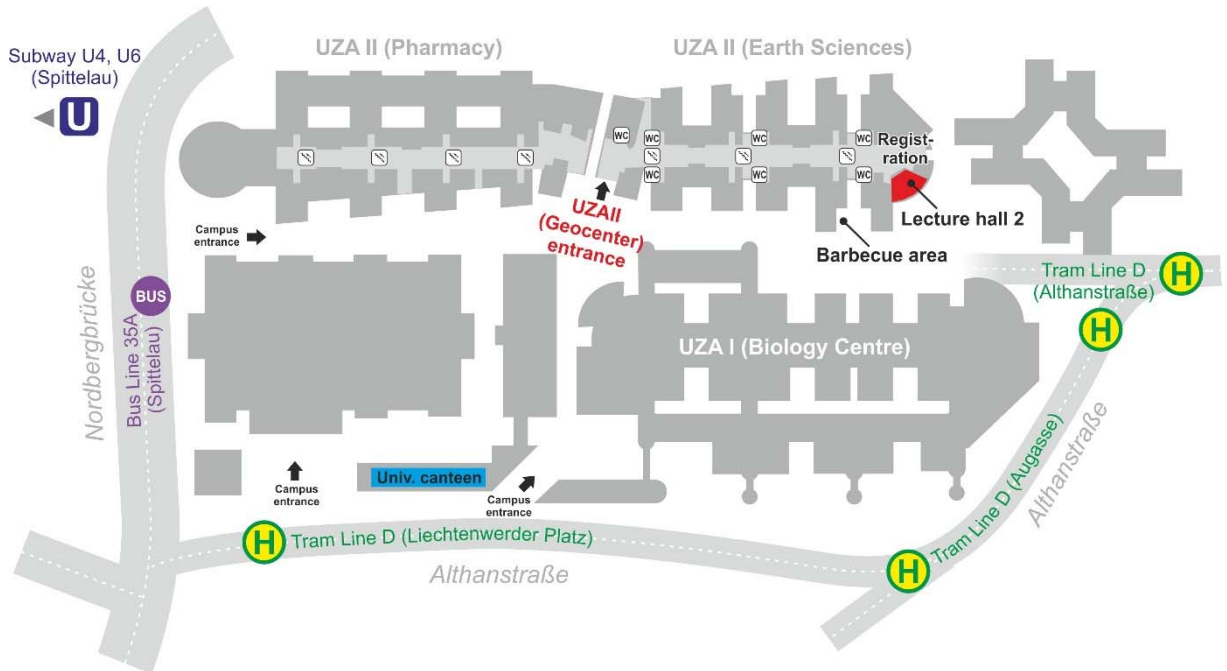


Natural History Museum Vienna, Burgring 7, 1010 Vienna
 Starting point for pre- and post-excursion (side entrance)
 Site of the Icebreaker (main entrance)

To reach the museum use subway line U2 or U3 and exit at station Volkstheater.

Map 3

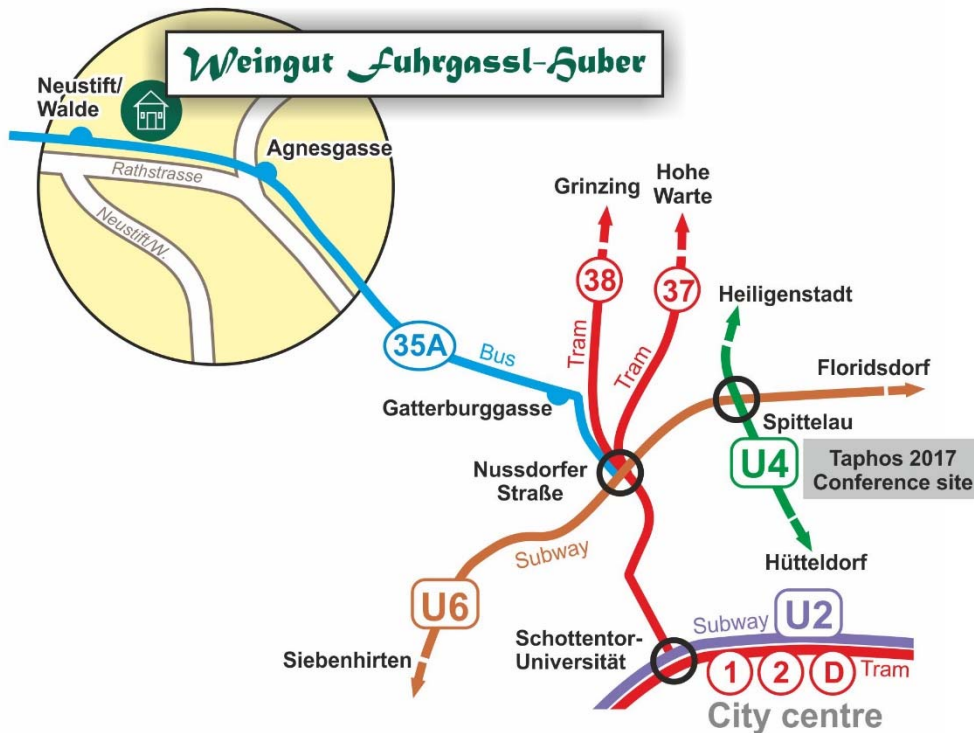
(Geocenter, University of Vienna)



Geocenter, UZAII, University of Vienna, Althanstrasse 14, 1090 Vienna
Scientific sessions
Barbecue

To reach the Geocenter use subway line U4 or U6 and exit at station Spittelau.
Alternatively, you may want to use tramway D and exit at station
Lichtenwerder Platz.

Map 4 (Heurigen Fuhrgassl-Huber)



Heurigen Fuhrgassl-Huber, Neustift am Walde 68, 1190 Vienna
Conference dinner (Saturday evening)

The conference dinner takes place at the “Weingut Fuhrgassl-Huber”, a traditional Viennese wine tavern. To reach the Heurigen use the bus 35A (enter either at station Spittelau or at station Nußdorfer Straße) and exit at station Neustift am Walde (after a ride of about 30 minutes). From there it is a one-minute walk (ca. 50 meters).

For the return trip we also recommend using bus line 35A (last trips: 23:40, 23:55) and the subway or a taxi service (e.g. 0043-1- 31300, -40100, -60160).