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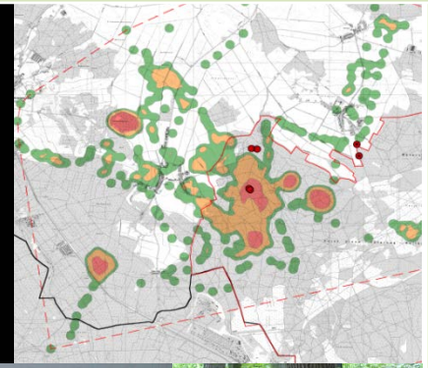
# 4th International Berlin Bat Meeting: Movement Ecology of Bats



Berlin,
13-15 March

**2015**

# Welcome

We very much welcome you at the **4th International Berlin Bat Meeting: Movement Ecology of Bats**, 13.-15. March 2015.

In line with the tradition of the International Berlin Bat Meetings, this meeting brings together people from various backgrounds (bat researchers, professional bat workers and bat enthusiasts) and from a broad variety of countries around the globe. We are confident that your participation in this conference will contribute to the stimulating exchange of ideas among international specialists. And we hope that you will enjoy the scientific and social program of this event.

Germany's capital, Berlin, offers a vibrant cultural life, including famous sites of contemporary architecture, museums, art galleries, two zoos and much more. We hope you will enjoy both the conference and the hosting city.

Our aim is to make your stay productive and pleasurable. Please do not hesitate to contact us whenever you need any help or advice.

*Christian C. Voigt* and *Stephanie Kramer-Schadt*

BfR - Federal Institute for Risk Assessment, Berlin-Marienfelde, GERMANY

Cover photo credits: Uwe Hoffmeister, Tobias Teige, Christian Voigt, Oliver Lindecke

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# Symposium Program

| Time | Friday 13.3.2015 |
|---|---|
| 09:30 | Opening of reception |
| 12:00 | Bus from Best Western Steglitz Hotel to conference venue |
| 13:30 | **Plenary Talk: Bat avionics and movement ecology (*Marc Holderied, University of Bristol, U.K.*)** |
| | **Session I: Movement ecology of bats** (*Stephanie Kramer-Schadt, Frieder Mayer, Germany*) |
| 14:15 | Airplane tracking of flight behavior of individual Brazilian free-tailed bats (*Gary McCracken, University of Tennessee, U.S.A.*) |
| 14:30 | The air up there: reconstructing 3D foraging flights of the common noctule (*Teague O'Mara, Max Planck Institute for Ornithology, Germany*) |
| 14:45 | Aerodynamics of manoeuvring flight in bats (*Per Henningsson, Lund University, Sweden*) |
| 15:00 | Using acoustic flight path reconstruction to distinguish foraging and commuting behaviour, then predicting it a posteriori from call features (*Yves Bas, Museum National d'Histoire Naturelle Paris, France*) |
| 15:15 | Coffee break |
| 15:45 | **Plenary Talk: Studying navigation in bats: a field based approach (*Richard Holland, Queen's University Belfast, U.K.)*** |
| 16:30 | Seasonal variation in foraging movements determines seed dispersal distances by straw-coloured fruit bats (*Eidolon helvum*) in tropical African landscapes (*Michael Abedi-Lartey, Max Planck Institute for Ornithology, Germany*) |
| 16:45 | Variation of spatial activity of different populations of *Rousettus aegyptiacus* living at distribution range margins (*Radek Lučan, Charles University in Prague, Czech Republic*) |
| 17:00 | Elucidating animal foraging in heterogeneous landscapes: the importance of detailed quantification of resource distribution and movement, illustrated by the Egyptian fruit bat (*David Shohami, The Hebrew University of Jerusalem, Israel*) |

17:15 Using multiple methods to investigate movements of Nathusius' pipistrelle in the UK
(*Kate Barlow, Bat Conservation Trust, U.K.*)

17:30 Poster session

19:00 Warm up party at the BfR

22:30 Bus from BfR to Best Western Steglitz Hotel

**Saturday 14.3.2015**

07:45 Bus from Best Western Steglitz Hotel to conference venue

08:30 **Plenary Talk: Active sensing guided movement □aximizing by on-board GPS and ultrasonic recordings**
***(Yossi Yovel, Tel Aviv University, Israel*)**

**Session II: GPS based tracking of bat movements**
(Chairs: *Ran Nathan, Israel; Dina Dechmann, Germany*)

09:15 GPS-tracking of Lyle's flying fox (*Pteropus lylei*; Pteropodidae) in an anthropogenic landscape in central Thailand
(*Natalie Weber, Max Planck Institute for Ornithology, Germany*)

09:30 Loyal rural bats vs. adventurous city bats – a GPS study of foraging of city and rural fruit bat colonies
(*Katya Egert Berg, Tel Aviv University, Israel*)

09:45 How foraging bats deal with wind – a GPS study
(*Aya Goldshtein, Tel Aviv University, Israel*)

10:00 GPS tracking reveals the potential importance of fruit bats for forest regeneration in Madagascar
(*Gareth Jones, University of Bristol, U.K.*)

10:15 The ATLAS system and its potential contribution for studying movement ecology of bats
(*Ran Nathan, The Hebrew University of Jerusalem, Israel*)

10:30 Coffee break

11:00 **Plenary Talk: The link between morphology, aerodynamics and movement ecology**
**(*Sharon Swartz, Brown University, U.S.A.*)**

**Session III: Morphological, sensorial and physiological constraints of bat movements**
(Chairs: *Holger Goerlitz, Germany; Marc Holderied, U.K.*)

11:45 Movement as a part of the sensing strategy for □aximizing foraging efficiency
(*Klemen Koselj, Max Planck Institute for Ornithology, Germany*)

12:00 Sympatric horseshoe bats differ in flight performance in confined space
(*Daniela Schmieder, Max Planck Institute for Ornithology, Germany*)

12:15 The aerodynamic cost of echolocation – flying with big ears (*Jonas Håkansson, Lund University, Sweden*)

12:30 Ear movements for dynamic sonar processing in orienting fruit bats
(*Ofri Eitan, Tel Aviv University, Israel*)

12:45 Lunch break

**Session IV: Migration of bats**
(Chairs: *Liam McGuire, U.S.A.; Anders Hedenström*, *Sweden*)

14:00 Aggregation of migratory bats to the coastline of the Northern Baltic Sea
(*Asko Ijäs, University of Turku, Finland*)

14:15 Massive bat migration across the Alps: implications for wind energy development
(*Fabio Bontadina, SWILD – Urban Ecology & Wildlife Research, Switzerland*)

14:30 Stable isotope analysis reveals flexible breeding and migratory strategies in Iberian populations of the bat *Nyctalus leisleri*
(*Ana Popa-Lisseanu, Leibniz Institute for Zoo and Wildlife Research Berlin, Germany*)

14:45 Using carbon and nitrogen stable isotope signatures in bat fur to make inferences on regional migration
(*Hugh Broders, Saint Mary's University Halifax, Canada*)

15:00 Trans-boundary origin of noctule bats killed at wind turbines in Germany
(*Linn Lehnert, Leibniz Institute for Zoo and Wildlife Research Berlin, Germany*)

15:15 Stopover ecology of spring migrating silver-haired bats
(*Kristin Jonasson, University of Western Ontario, Canada*)

15:30 East by Northeast – the onset of spring migration in female noctule bats
(*Angelika Meschede, PAN GmbH, Planungsbüro für angewandten Naturschutz München, Germany*)

15.45 Using automated telemetry arrays to study the movement ecology of migrating bats: more than just connecting the dots (*Liam McGuire, Texas Tech University, U.S.A.*)

16:00 Coffee break

16:30 **Plenary Talk: Coordinated movements in bats: benefits and constraints**
**(*Gerald Kerth, University of Greifswald, Germany*)**

**Session V: Sociality and movement ecology**
(Chairs: *Sébastien Puechmaille*, *Mirjam Knörnschild*, Germany)

17:15 Ecological determinants of body mass: insights from the group foraging bat *Molossus molossus*
(*Yann Gager, Max Planck Institute for Ornithology, Germany*)

17:30 Acoustically mediated natal dispersal in the polygynous bat *Saccopteryx bilineata*
(*Mirjam Knörnschild, University of Ulm, Germany*)

17:45 What happens when bats don't move – landscape heterogeneity, forearm length, and population dynamics (*James Aegerter, National Wildlife Management Centre, Germany*)

17:30 BATS: sensor technology for unraveling social networks in bats (*Simon Ripperger, Museum für Naturkunde Berlin, Germany*)

18:15 Poster session

19:30 Departure to conference banquet

20:00 Conference Banquet in the Natural History Museum Berlin

22:30 Bus from Museum to Best Western Steglitz Hotel

**Sunday 15.3.2015**

7:45 Bus from Best Western Steglitz Hotel to conference venue

08:30 **Plenary talk: Integrating movement ecology and disease ecology: A conservation imperative**
**(*Winifred Frick, University of California Santa Cruz, U.S.A.*)**

**Session VI: Moving bats and diseases**
(Charis: *Raina Plowright U.S.A.; Daniel Streicker, U.K.; Gudrun Wibbelt, Germany*)

09:15 Features of bat virus spillover
(*Raina Plowright, Montana State University, U.S.A.*)

09:30 Migratory bats linking communities in world-wide migratory networks (*Silke Bauer, Swiss Ornithological Institute Sempach, Switzerland*)

09:45 African fruit bat species differences in health and immunity as a function of habitat disturbance and movement ecology – implications for emerging infectious disease from South Sudan studies (*DeeAnn Reeder, Bucknell University, U.S.A.*)

10:00 *Epomophorus gambianus* role in the maintenance of filoviruses among sympatric fruit bats in Ghana (*Silke Riesle, University of Cambridge, U.K.*)

10:15 Coffee break

**Session VI: Moving bats and diseases**
(Chairs: *Raina Plowright U.S.A.; Daniel Streicker, U.K.; Gudrun Wibbelt, Germany*)

10:45 High fidelity of bats to specific hibernacula – does it mean low potential for spread of WNS? (*Jan Zukal, Masaryk University, Czech Republic*)

11:00 Investigation into the transmission and spread *of Pseudogymnoascus destructans*, the etiologic agent of White Nose Disease (*Sebastien Puechmaille, Ernst-Moritz-Arndt University Greifswald, Germany*)

11:15 Small differences in host and parasite life history can strongly affect parasite population genetic structure: lessons from two bat hosts and three ectoparasites (*Jaap van Schaik, Max Planck Institute for Ornithology Seewiesen, Germany*)

11:30 Molecular evolutionary signatures reveal male-biased dispersal of vampire bat rabies (*Daniel Streicker, University of Georgia, U.S.A.*)

11:45 Lunch break

**Session VII: Conservation and movement ecology of bats**
(Chairs: *Christian Voigt, Germany; Tigga Kingston, U.S.A.*)

13:00 Two lakes, three countries and thousand of bats: movement and conservation of bats in the Prespa Lakes area (*Philipp Théou, University of Tirana, Albania*)

13:15 LED light impacts urban bat communities less than commonly used mercury street lights (*Daniel Lewanzik, Leibniz Institute for Zoo and Wildlife Research Berlin, Germany*)

13:30 Population structure of hoary bats and silver-haired bats across Canada (*Erin Baerwald, University of Calgary, Canada*)

13:45 Acoustical flight path tracking for bat conservation: assessment of road collision risks before construction, and mitigation measures propositions (*Charlotte Roemer, Biotope, Research and Development, France*)

14:00 **Plenary Talk: Bats and plants entangled in the web of life (*Marco Mello, Universidade Federal de Minas Gerais, Brazil*)**

14:45 Closing ceremony/Awards

15:00 **End of Conference**

# Poster Presentations

**Session 1: Movement Ecology of Bats**

**P1:** **Time and spatial activity of *Rousettus aegyptiacus*: a novel perspective in study of spatial behaviour**
*Bartonička Tomáš*, Lučan Radek, Jedlička Petr, Řeřucha Šimon, Abi-Said Mounir, Porteš Michal, Shohdi Wael, Horáček Ivan

**P2:** **Activity and dispersal of the Leisler's bat, *Nyctalus leisleri* (Kuhl, 1818) during the pre-hibernal and hibernal period in Ireland**
Russ Jon M., Hopkirk Austin C., Lucas Tim C.D., Gueguen Ségolen, *Boston Emma S. M.*

**P3:** **Effects of different linear features on the level of bat activity in agricultural landscapes in Serbia**
*Burazerović Jelena*, Paolo Tizzani, Nicole Preacco, Duško Ćirović, Gareth Jones

**P4:** **Accelerating movement patterns – a modelling approach to connect populations of the endangered Greater horseshoe bat (*Rhinolophus ferrumequinum*)**
*Dietz Markus*, Krannich Axel, Pir Jacques B.

**P5:** **"When September Comes": bat community changes with autumn in a Argentinian town revealed by acoustic survey**
*Giacomini Giada*, Priori Pamela, Scaravelli Dino

**P6:** **The movement ecology of a predator-prey-community: neural representation of bat predation risk in moths**
*Goerlitz Holger*, Ter Hofstede Hannah, Holderied Marc

**P7:** **Seasonal and daily movements of *Lasiurus blossevillii* in California**
*Johnston Dave S.*, Rainey William E., Schwarz Susan K., Wyatt David, Pierson Elizabeth D.

**P8:** **Habitat use of a bat community in northern Bavaria, Germany**
*Josić´Darija*, Ripperger Simon, Mayer Frieder

**P9:** **Object memory vs. spatial memory in trawling bats, *Myotis daubentonii***
*Lundberg-Aaskoven Nicolaj*, Larsen Emil G., Surlykke Annemarie

**P10:** **Which environmental factors affect the commuting and foraging activity of bats in an anthropogenic landscape?**
*Heim Olga*, Lenski Johannes, Schulze Jelena, Reichel-Jung Kirsten, Kramer-Schadt Stephanie, Eccard Jana, Voigt Christian C.

**P11:** **Patterns of spatial activity of *Rousettus aegyptiacus* colonies in the Mediterranean Region in the light of multiple comparisons: individual variation vs. social synchronisation**
*Horacek Ivan*, Lucan Radek, Jedlicka Petr, Rerucha Simon, Abi-Said Mounir, Portes Michal, Shohdi Wael, Bartonicka Tomas

**P12:** **From sensory limitations to roost finding strategies in bats**
*Ruczyński Ireneusz*, Bartoń Kamil

**P13:** **Seasonal movement of bats in big city area (Kharkiv, NE Ukraine)**
*Vlaschenko Anton, Kravchenko Kseniia*, Prylutska Alona, Gukov Vitaliy, Suvorova Anna, Rodenko Elena

**P14:** **Relationships between spatial activity, ecomorphology and ecology in Chiroptera**
*Křemenová Jana*, Weiser Martin, Šímová Irena, Lučan Radek K.

**P15:** **Testing the intensity compensation hypothesis in foraging barbastelle bats, Barbastella barbastellus, in the wild**
*Lewanzik Daniel*, Goerlitz Holger R.

**P16:** **Where, when and why? Spatio-temporal use of habitat in boreal forest-dwelling bats**
*Lilley Thomas*, Blomberg Anna, Laine Veronika, Niemelä Pekka, Norrdahl Kai, Ruokolainen Lasse, Selonen Vesa, Vasko Ville, Vesterinen Eero

**P17:** **Move under light or shade: habitat use and lightings in different Mediterranean bat species**
*Priori Pamela*, Scaravelli Dino

**P18:** **Revaluation of the range expansion of *Pipistrellus kuhlii* sensu lato in central Europe**
*Sachanowicz Konrad*, Piskorski Michał

**P19:** **Do bats hunt preferentially over certain crop fields in agricultural landscapes?**
*Schröder Assja*, Heim Olga, Eccard Jana, Voigt Christian C.

**P20:** **Flight metabolism in relation to speed in migratory Nyctalus noctula**
*Troxell Sara A.*, Voigt Christian C.

**P21:** **CSI methods applied to biology: Indirect evidence of bat movements on a small scale**
*Vesterinen Eero J.*, Lilley Thomas

**Session 2: GPS-Based Tracking of Bat Movements**

**P22:** **Habitat use of noctule bats (*Nyctalus noctula*) unraveled by high-resolution miniaturized GPS receivers**
*Roeleke Manuel*, Yovel Yossi, Borissov Ivailo, Blohm Torsten, Kramer-Schadt Stephanie, Voigt Christian C.

**Session 3: Morphological, sensorial and physiological constraints of bat movements**

**P23:** **Visual detection threshold in echolocating bats**
*Cechetto Clément*, Surlykke Annemarie

**P24:** **Bat flight: aerodynamics, kinematics and flight morphology**
*Hedenström Anders*, Johansson Christoffer

**P25:** **Stereotypic flight paths: a way to focus attention while foraging?**
*Hulgard Katrine*, Moss Cynthia, Jakobsen Lasse, Surlykke Annemarie

**P26:** **Echolocation and flight behaviour in the brown long-eared bat (*Plecotus auritus*)**
*Jakobsen Lasse*, Hedenström Anders

**P27:** **How anthropogenic noise affects bat foraging**
*Luo Jinhong*, Siemers Björn M., Koselj Klemen

**P28:** **Buzz II vary in duration accordingly to the level of difficulty when catching prey, in the bat *Myotis daubentonii***
Hulgard Katrine, *Pedersen Randi*, Surlykke Annemarie, Ratcliffe M. John

**P29:** **Directionality of sonar calls emitted by *Macrophyllum macrophyllum* in open and cluttered habitats**
*Olsen Mads*, Jakobsen Lasse, Surlykke Annemarie

**P30:** **Sexual size dimorphism in wing morphology in European bat species – preliminary results**
*Postawa Tomasz*, Dragu Anca, *Jakubowska Anna*

**P31:** **Bat species comparisons based on external morphology: a test of traditional versus geometric morphometric approaches**
*Schmieder Daniela A.*, Benítez Hugo A., Borissov Ivailo M., Fruciano Carmelo

**P32:** **Echo-acoustic adaptions in a bat-pitcher plant-mutualism**
*Schöner Michael Gerhard*, Schöner Caroline Regina, Simon Ralph, Grafe Ulmar, Liaw Lin Ji, Kerth Gerald

**P33:** **Phenotypes of newly generated cells in the adults' brains of some species of the Rhinolophidae bats**
*Turlejski Kris*, Ghazaryan Astghik S., Djavadian Rouzanna L.

**Session 4: Migration of Bats**

**P34:** **Male mating strategies and reproductive success in a bat with an exceptional mammalian dispersal pattern**
*Günther Linus*, Nagy Martina, Knörnschild Mirjam, Mayer Frieder

**P35:** **Do opposites attract? Disassortative grouping in harems of Nathusius' bats during autumn migration**
*Lindecke Oliver*, Voigt Christian C.

**P36: Are the spatial dynamics of bats in summer the foundation stone for the successful management of European bats?**
*Mordue Simone*, Smith Graham, Rushton Stephen, Mill Aileen, Aegerter James

**P37: Revaluation of the range expansion of *Pipistrellus kuhlii* sensu lato in central Europe**
*Sachanowicz Konrad*, Piskorski Michał

**P38: Male occurrence as a function of female density and habitat quality in Bechstein's bats (*Myotis bechsteinii*)**
*Steck Claude*, Kohnen Annette, Brinkmann Robert

**Session 5: Sociality and Movement Ecology**

**P39: Movement and sociality of *Rhinolophus ferrumequinum* in October at a nursery roost and a hibernaculum in the U.K.**
*Andrews Margaret M.*, Andrews Peter T., Bevis Sylvia M., Billington Geoff, Willis David F.

**Session 6: Moving Bats and Diseases**

**P40: Monitoring bat populations in Ghana**
*Amponsah-Mensah Kofi*, Cunningham Andrew, Wood James, Ntiamoa-Baidu Yaa.

**P41: Impact of guano mining on insectivorous bat colonies and guano miners in Turkey**
*Aşan Baydemir Nursel*

**P42: Movement activity of bats inside the cave during hibernation**
*Berková Hana*, Řehák Zdeněk, Zukal Jan,

**P43: Ticks (Acari: Ixodidae) parasitizing bats in Montenegro**
*Burazerović Jelena*, Sanja Ćakić, Darko Mihaljica, Ratko Sukara, Duško Ćirović, Snežana Tomanović

**P44:** **Investigating ecological factors and the presence of *Pseudogymnoascus destructans* on bats and in their hibernation sites**
*Fritze Marcus*, Puechmaille Sebastien J.

**P45:** **First specific data on the occurrence of EBLV in bats from Ukraine**
Van Weezep Erik, Godlevska Lena V., Prylutska Alona S., Vlaschenko Anton S., *Lina Peter H.C.*, Kooi Engbert A.

**Session 7: Conservation and Movement Ecology of Bats**

**P46:** **Bats at Risk! How informative are results from high-altitude surveys of bat activity at wind turbines? Practical applications**
*Adorf Frank*

**P47:** **Bats at Risk! Reality versus statistical model: Do systematic fatality searches yield a realistic picture of species-specific threats to bats from wind turbines?**
Hillen Jessica, *Adorf Frank*

**P48:** **Invertebrate species richness of bat guano in Central Anatolia**
*Aşan Baydemir Nursel*, Genç Meryem, Şimşek Merve, Kolbasar Ömer Faruk, Danişman Tarık, Atasoy Deniz

**P49:** **BatLife Europe - a pan European bat conservation NGO**
*Dekker Jasja*

**P50:** **Identifying key habitats in different scales provides a reliable basis for the conservation of forest dwelling Bechstein's bat**
*Markus Dietz*, Barbara Dawo, Axel Krannich, Jacques B. Pir

**P51:** **Guild-specific responses of bats to vegetation structure at different scales: implications for conservation**
*Froidevaux Jeremy Serge Pascal*, Zellweger Florian, Bollmann Kurt, Jones Gareth, Obrist Martin Karl

**P52:** **Seasonal bat activity near hedgerows in north-eastern Germany**
*Kelm Detlev H.*, Lenski Johannes, Kelm Volker, Toelch Ulf, Dziock Frank

**P53: A bat fatality risk model at wind farms in Dobrogea, Romania, using a GIS approach**
*Măntoiu Dragoş Ştefan*, Chişamera Gabriel, Chachula Oana Mirela, Mărginean Georgiana, Pocora Irina, Pocora Viorel, Hodor Călin, Stanciu Cătălin Răzvan, Popescu-Mirceni Răzvan, Alexandra Telea, Dragoş Bălăşoiu, Şandric Ionuţ Cosmin

**P54: Using species distribution modelling to predict the risk to non-migrating bats at current and future wind energy facilities in Ireland**
*Nealon Úna*, Montgomery Ian, Teeling Emma

**P55: Bats' use of aquatic habitats: a review emphasizing how anthropogenic impacts on water bodies affect bats**
*Salvarina Ioanna*

**P56: Bats crossing the federal motorway A11 on the segment Finowfurt-Gramzow via different types and sizes of underpasses**
*Schewe Andrea*

**P57: Bats' use of aquatic habitats: a review emphasizing how anthropogenic impacts on water bodies affect bats**
*Schöner Caroline Regina*, Schöner Michael Gerhard, Clarke Charles, Grafe Ulmar, Dombrowski Linda, Kerth Gerald

**P58: Effects of forest management and forest structure on bat species diversity and foraging activity in different forest types of Brandenburg**
*Starik Nicole*, Zeller ulrich

**P59: Ringing the changes: Establishing a set of guidelines and centralised database for bat ringing in the UK**
*Worledge Lisa*, Barlow Kate

**Sponsor Poster**

**P60: Bat3Data, the automated detection of the trajectography of bats in 3D in the field using acoustics**
Pouchelle Hippolyte, *Gest Martyn*

## Conference venue

**BfR - Federal Institute for Risk Assessment**
Diedersdorfer Weg 1
D-12277 Berlin - Marienfelde
GERMANY

phone: +49 - (0)30 - 184 12 - 0
fax: +49 - (0)30 - 184 12 - 47 41
www.bfr.bund.de

**Registration desk / conference office:** The staff at the conference office will be happy to help you with any questions and problems regarding the conference. On Friday, February 19th, both the registration desk and conference office are located near the entrance to the **Foyer**. During the following days you will find the registration desk on the Gallery**.**

**Coffee, tea, water, cookies and fruits** are served during all coffee breaks on the Gallery and in the Foyer. Please use the coffee mug that you receive during registration for all coffee breaks. We kindly ask you to clean it yourself. Thanks for your understanding.

**Lunch** is available at the **canteen** of the conference venue on Friday and Saturday. Tickets for a meal including a main dish, a small salad or dessert, and a 0.2l drink can be bought for 5.50 Euros at the registration desk. For Sunday, we will provide you with a **lunch package** that you can either eat at the conference venue or take with you in case you leave early. If you would like to purchase such a lunch package, please buy a ticket for 5 Euros on Friday at the registration desk.

Canteen at BfR - Federal Institute for Risk Assessment, Berlin-Marienfelde, GERMANY

**Computer facilities:** We will provide computers for free internet access. In case you have troubles, please see the staff at the registration desk for help.

## Social events

**Poster-pasta party:** On **Friday, March 13th**, when most of the conference participants will have arrived, a buffet with pasta and beverages will be served starting at about 7 pm at the conference venue. You may enjoy your meal and drink while visiting and discussing the presented posters.

**The Banquet:** On **Saturday, March 14th**, we will close the scientific session of Saturday's program with an exceptional banquet held at the famous dinosaur hall of the Museum of Natural History in Berlin. You will be offered a buffet with mostly Mediterranean dishes, and while enjoying your meal you may take a journey 150 million years back in time. Look up, and you will be greeted by *Brachiosaurus brancai*, the largest reconstructed dinosaur skeleton on earth. And while enjoying your dessert you may visit the *Archaeopteryx*, not a fake replicate, but one of the original fossils.

**Meeting point**: Registered banquet participants will meet at **18:45** in front of the **conference venue entrance** for an organized bus ride to the Museum of Natural History.

After the banquet, a bus will bring those participants with a room in the Best Western Hotel "Steglitz International" to the hotel. The bus is leaving at 10:30 pm in front of the museum.

For those of you who have booked a room close to the conference venue, please use the S-Bahn S2 (direction "Blankenfelde") departing from the station "Nordbahnhof" (a 5-min walk from the museum). Exit at station "Buckower Chaussee". The S-Bahn will commute all night long on Saturday/Sunday.

**Best student oral and poster presentation award.** The best oral and poster presentations by students will be awarded book prizes donated by Chimaira and publishers.

**The T.H. Kunz AWARD for best student oral presentation**: With this award (a cash price of 500€, **kindly sponsored by Wildlife Acoustics, Inc**.), we would like to honor the influential contribution of Prof. Dr. Thomas H. Kunz (Boston University) to the field of bat research in general, and his support of past International Berlin Bat Meetings in particular. The price will be awarded to the student participant with the best oral presentation during an IBBM. All student participants with oral presentations are eligible for this award.

## Public transport (BVG) information

Public transport in Berlin is operated by the company **BVG**. In this program booklet, we provide general information about tariff areas, tickets and fares as well as the most important routes for conference participants. More detailed information and a very helpful **journey planer** and **BVG network maps** for download can be found at www.bvg.de/index.php/en/index.html.

Berlin has three **tariff zones**: A, B and C. Tickets are available for combinded zones, **tickets for zones AB** are sufficient to travel within Berlin and thus for all routes mentioned below. Tickets allow you to use all **buses**, **trams**, **S-Bahn** and **underground** (U-Bahn) **trains**, including **regional rail transport**.

Tickets are available from **ticket counters** and **ticket machines** on S-Bahn, underground and trams (unless otherwise stated, see 7-Day-Card)

and can be bought from bus drivers. **Validity requires** the **cancellation** via stamping **immediately on starting your travel** for tickets purchased from machines (but not those bought from bus drivers)**.** Stamping machines are provided at all stations**,** tickets purchased within trams are already cancelled at the point of sale.

Fares overview for **AB tickets**:

- **Single ticket** (Einzelfahrausweis): valid for two hours, one direction, **2.70 €**
- **Day pass** (Tageskarte): valid for one day, all directions, until 03:00 am on the following day, **6.90 €**
- **Small group ticket** (Kleingruppenkarte): up to 5 people can travel together according to the conditions of a day pass, **16.90 €**
- **7-Day-Card** (7-Tage-Karte VBB-Umweltkarte): valid on seven consecutive days, (not available on buses and trams, please purchase on underground or ticket counters), **29.50 €**

To plan your journeys, please use the **journey planer** on the **BVG website**. Here, you can indicate your departure and destination stop (also specific addresses, i.e. street name and number) as well as the date and time of desired arrival or departure and receive a detailed travel plan.

On the following pages, you will find a description of how to get to the conference venue (BfR) after your arrival at Berlin by plane or train. Please make sure that you have a valid "BVG" ticket when you start a journey, since ticket controllers are frequent and strict.

**Important travel routes via BVG**:

(1) **Airport Berlin-Tegel to** the **BfR** (conference venue)

- From **Airport Tegel** take the **bus X9** at the main entry of the airport in direction of "Zoologischer Garten"

- Exit at the station "**Zoologischer Garten**". You will find the entry to the underground in front of the train station entry. Take the **underground line 9** in direction of "Rathaus Steglitz".
- Exit at the station "**Rathaus Steglitz**". Follow signs to the **bus X83** and take this bus in the direction of "Lichtenrade", "Nahariyastraße" or "Marienfelde", "Marienfelder Allee / Nahmitzer Damm".
- Exit at the station "**Nahmitzer Damm / Marienfelder Allee**". Cross the Nahmitzer Damm" and follow the **path** directly leading to the institute (see map on page 13).

The whole journey will take approx. 60 minutes.

(2) **Airport Berlin-Schönefeld to** the **BfR** (conference venue)

- Take the **bus 171** that departs at the forecourt in front of the **Airport Schönefeld** building in direction of "U Hermannplatz"
- Exit at the station "**Neuköllner Straße / Zwickauer Damm**". Take the **bus M11** in direction of "U Oskar-Helene-Heim" or "Unter den Eichen/Drakestr.".
- Exit at the station "**Nahmitzer Damm / Marienfelder Allee**". Cross the Nahmitzer Damm" and follow the **path** directly leading to the institute (see map on page 13).

The whole journey will take approx. 45 minutes.

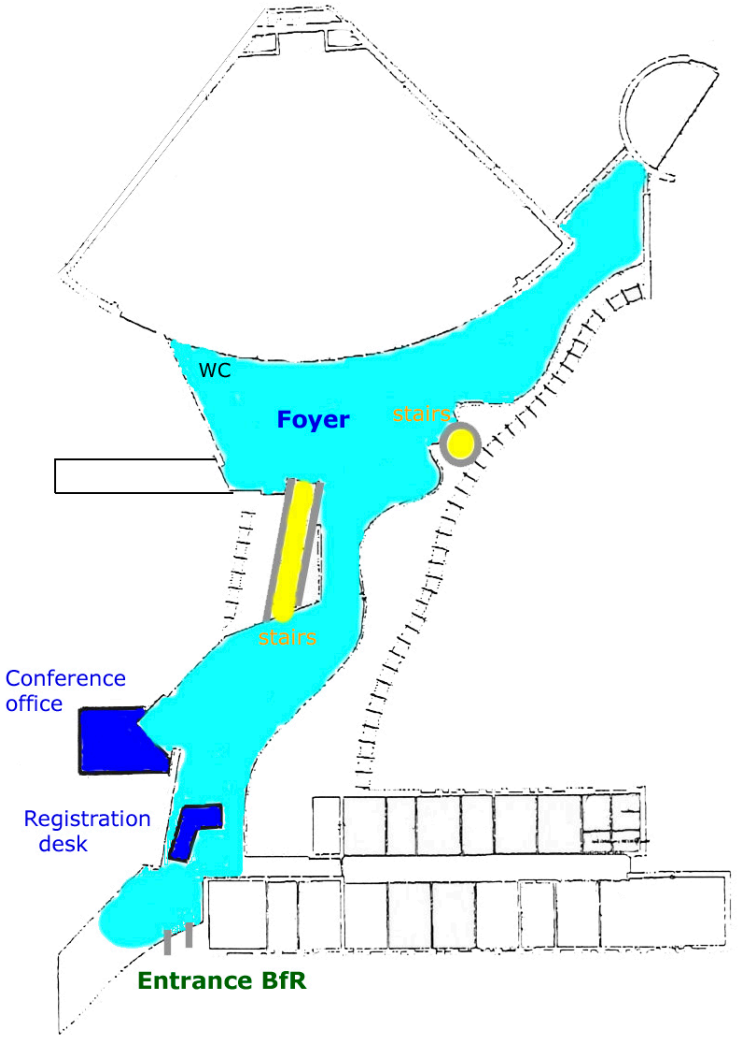
(3) **Main Station Berlin** ("Hauptbahnhof") **to** the **BfR** (conference venue)

- Here, you can **take any S-Bahn line** (via station "Friedrichstraße") to the next station "Friedrichstraße".
- At the station "**Friedrichstraße**", take the **S-Bahn line 2** in direction of "Blankenfelde".

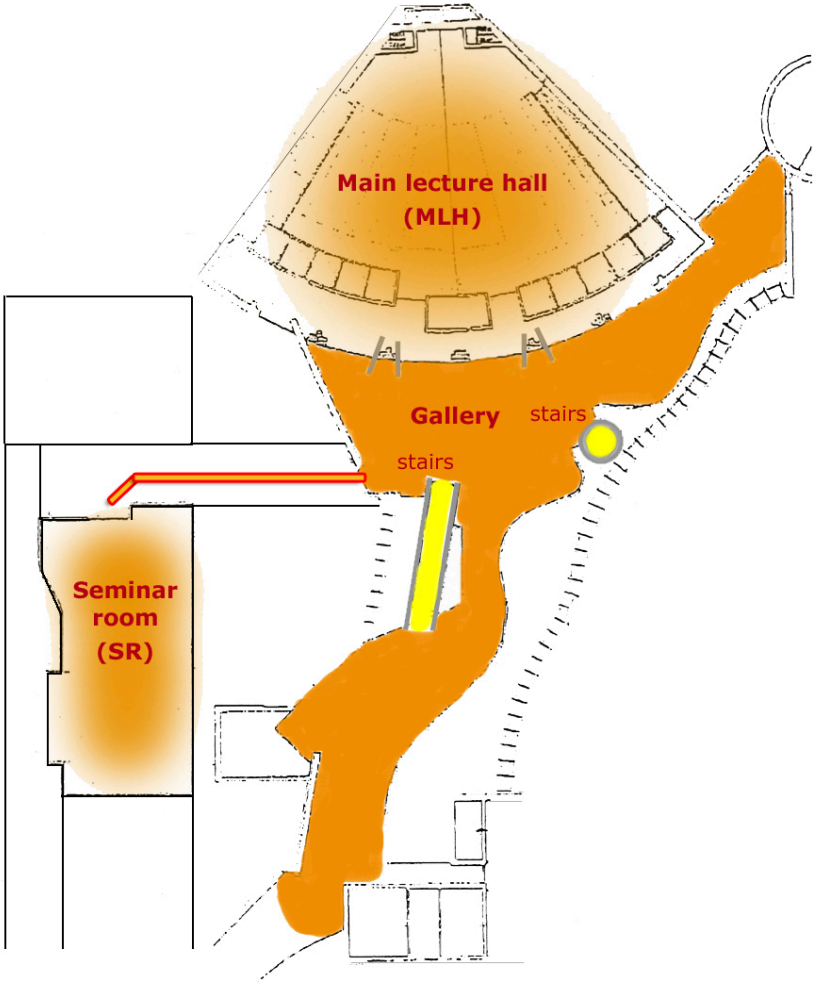
- Depart at the station "**Buckower Chaussee**" and exit the station in direction of "Buckower Chaussee". The bus stop is located left from the rails over the road. Take either **bus X11** in direction of "U Dahlem-Dorf" or **bus M11** in direction of "U Oskar-Helene-Heim" or "Unter den Eichen / Drakestraße".
- Exit at the station "**Nahmitzer Damm / Marienfelder Allee**". Cross the Nahmitzer Damm" and follow the **path** directly leading to the institute (see map on page 13).

The whole journey will take approx. 40 minutes.

**BfR - Federal Institute for Risk Assessment - Ground floor**



**BfR - Federal Institute for Risk Assessment - First floor**



# Acknowledgements

We owe our sincere thanks to the following supporters of this conference:

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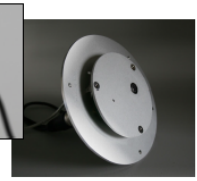

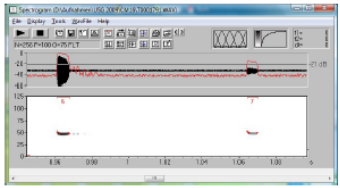

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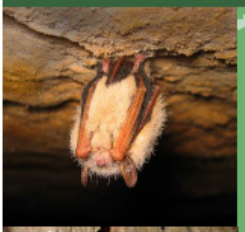

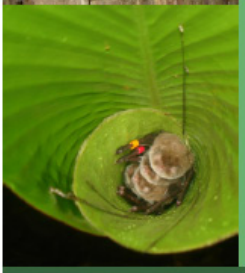

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# Notes