Welcome

Welcome to the Zoo and Wildlife Health Conference 2017 in Berlin, Germany. The conference was formerly known as the International Conference on Diseases of Zoo and Wild Animals and is continuing under the new name with a broader and more inclusive scope. You are contributing to the advancement of research relevant to captive and free ranging animal health by being a part of this unique international gathering.

The Zoological Garden Berlin AG consists of the Zoo Berlin, the Tierpark Berlin and the Zoo-Aquarium Berlin and represents the largest zoo operation in Europe with more than 4 million visitors per year. Nowhere can we encounter over 25,000 animals in only one city.

The historical Zoo Berlin was opened in 1844 and founded as a private share-holder company in 1845. It is not only the oldest Zoo in Germany and the ninth oldest in the world but it is also renowned for its large animal collection. Before World War II, Zoo Berlin hosted 1,196 mammals from 385 species. But only 91 individuals survived the war, among them two lions, two hyenas, one Asian elephant, one hippopotamus and one chimpanzee. Although the number of animals was increased again after the war, modern animal welfare standards suggested a reduction of species to provide better living standards and care for each individual. Thus by the end of 2015, Zoo Berlin had 898 mammals of 159 species in its care. In the UN decade of biodiversity we are now focused on raising awareness about biodiversity outside, rather than aiming for the largest number of species within our Zoological Gardens.

“In order to shape the future, you need to look back at the past” is our motto. While we are preserving and presenting the unique history of this truly remarkable institution, we are creatively and openly discovering and developing its potential. Setting new standards in animal care and research, species conservation, and visitor experience is a monumental and exciting task that our entire team will approach with great passion both now and in the coming decades.

The architecture of animal houses in the zoo is a good example of what Berlin is renowned for: history and future side by side. On the one hand, the traditional Antelope House, built with its minarets and opened in 1872, was and is the most splendid building in the Zoo Berlin. On the other hand, the recently reopened “World of Birds” lives up to the latest trends of visitor information and so-called “edutainment”. Another highlight is certainly the news that a young panda couple will be coming to Zoo Berlin. The panda contract with Beijing has been signed and so it is official that Zoo Berlin will welcome two giant pandas from the Chengdu Research Base of Giant Panda Breeding in June 2017.

While the iconic Zoo Berlin is attracting visitors due to its central location and history, the Tierpark Berlin is impressing with its extensive grounds. Located in a historical palace garden in one of Berlin's eastern suburbs, the 160 ha wide landscape is the largest Zoo in Europe. To retain its special tradition, its uniqueness, while at the same time making the largest landscape zoo in Europe fit for the future is a monumental task that we will face in the coming years – one that will move proverbial mountains. Founded in 1955, the Tierpark Berlin is not only famous for its magnificent castle – Schloss Friedrichsfelde – but also for its success in breeding pachyderms. The greater one-horned rhinoceros Thanos was born in September 2015 and his neighbour Edgar came as the latest addition to the Asian elephant herd on New Year’s Day 2016.
For many years the Tierpark Berlin was also the only place in Europe where you could observe many different animal species from China and its bordering countries. The blue sheep, the Central Chinese goral and the Sichuan takin are only a few of these animals.

The Aquarium is situated at the border of the Zoo Berlin. It is the largest aquarium in Germany and it houses on three floors not only water animals, but also reptiles and amphibians and even a large number of terrestrial invertebrates. But the Aquarium Berlin is also well known for its success in the husbandry of the rare chimaeras and especially for its successful breeding of jellyfish. The reptile department has been renovated to provide more spacious and natural enclosures.

All three institutions incorporated in the Zoologischer Garten Berlin AG are famous for their great success in husbandry and breeding of rare and endangered animals – many of them are kept in self-sustaining populations. Every year the breeding surplus is supplied to zoos around the world or - as part of international programs - released again into their original natural habitat in order to secure their long-term survival. By participating in more than 200 international breeding and conservation programs, the Zoological Garden Berlin AG is a major contributor to nature conservation.

We hope your stay is productive and pleasurable. Do not hesitate to contact us at the conference office for help and/or advice.

Enjoy your stay in Berlin!

Alex D. Greenwood    Andreas Knieriem    Hanspeter Steinmetz
Gábor Á. Czirják    Andreas Ochs    Stephanie Sanderson
Steven Seet    André Schüle    Kim Grützmacher
Josepha Prügel    Andreas Pauly    Hugo Fernández Bellon
Stefanie Lenz    Günther Strauss    Sabine Öfner
Heribert Hofer    Claudia Bienek    Baptiste Mulot

Leibniz Institute for Zoo and Wildlife Research (IZW), Berlin, Germany
Zoo Berlin
Tierpark Berlin
Aquarium Berlin

European Association of Zoo and Wildlife Veterinarians (EAZWV)
Liebefeld-Berne, Switzerland

Contact local organiser: Claudia Bienek    Tel: +49 175 263 00 20
Contact IZW organiser: Steven Seet    Tel: +49 177 857 26 73
Cover: Western lowland gorilla “Ivo”    © Zoo Berlin, Ruben Gralki

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ACKNOWLEDGEMENT - SPONSORS

We wish to thank the supporters of the conference:

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FLOOR PLAN: CONFERENCE VENUE
(Technische Universität Berlin)
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PRESENTATIONS AT THE CONFERENCE

There will be three different forms of presentations at the conference: plenary talks, oral contributions and poster contributions.

All presentations will be held at the conference centre at the Technische Universität Berlin in Berlin, Germany. There will be four plenary talks, one at the beginning of the morning session on Thursday and Saturday and one at the beginning of the Thursday and Friday afternoon session. The last plenary talk will be held on the Saturday morning session. Contributed talks will be held in twelve sessions and are scheduled with 12 min followed by 3 min of discussion. The session chairs will keep a strict schedule.

PowerPoint presentations require a USB-stick containing all necessary files. Speakers are asked to hand in their USB flash drive at the registration desk to receive their registration documents. For technical reasons, individual laptops will only be hooked up to the projector in rare exceptions after prior agreement with the organisers.

Posters are displayed in the conference centre and can be viewed at all times. Posters are arranged alphabetically. Contributors of posters are requested to present their posters in person during the poster sessions (Thursday and Friday afternoon during the coffee break). Poster mounting starts on Wednesday, 24th May, at 13:00. Posters should be on site until Saturday, 27th May, at 13:00.

Workshops 1 – 9 are scheduled for Wednesday, 24th May (for times, durations, and locations please see below).

1. Basics of immobilisation - drugs, technique, practice (09:00 – 13:00, Zoo Berlin)
2. Expeditionary veterinary medicine (14:00 – approx. 17:00, Zoo Berlin)
3. Wildlife field techniques- the use of invertebrates to monitor mammal diversity and diseases (09:00 – 16:00, Technische Universität Berlin + Zoo or Tiergarten)
4. Advanced Anaesthesia (09:00 – 18:00, Technische Universität Berlin)
5. Parasites of arthropods and cold blooded vertebrates (10:00 – 16:00, Technische Universität Berlin)
6. Handling, clinical examination and treatment techniques in injured wild birds (09:00 – 16:00, Freie Universität Berlin)
7. Molecular diagnostics for elephant and equine herpes: a look behind the scenes (09:00 – 15:00, Institute of Virology (small course room), Freie Universität Berlin)
8. Zoo animal pathology (09:00 – 16:30, Leibniz Institute for Zoo and Wildlife Research (IZW))
9. The use of ultrasound and computed tomography in zoo animals (09:00 – 17:00, Leibniz Institute for Zoo and Wildlife Research (IZW))

All workshop participants will receive a name badge, which ensures free entry to the workshop areas throughout the day. This is also your name badge for the conference and ensures access to all conference areas.

**All conference name badges can be used as ticket for public transport** in Berlin (in all three tariff zones A, B and C) throughout the whole conference (24\textsuperscript{th} to 27\textsuperscript{th}), in combination with your identity card or passport.

**Roundtable discussions** (parallel sessions) are scheduled for **Friday, 26\textsuperscript{th} May (17:30 – 18:30)** in the conference centre at the Technische Universität Berlin.

1. Tuberculosis: TB or not TB
2. The role of veterinary advisors

Two further topics will arise by popular demand and will be announced at the conference.

**Rudolf Ippen Young Scientist Award, IZW/EAZWV.** The “Rudolf Ippen Young Scientist Award” was awarded for the first time in Madrid in 2010, in memory of the internationally acclaimed scientist Prof Dr Rudolf Ippen, who passed away in March 2009.

The award will go to a young scientist whose research demonstrates challenging and innovative ideas and/or offers useful practical or theoretical knowledge to the work of a broad spectrum of zoo and wildlife veterinarians, biologists and other wildlife scientists.

**Application for 2018:** Please send your CV, list of publications (at least one as first author), and a PDF copy of the three most important publications of the last 12 months to:

2018@zoowildlifehealth.org.

**Student presentation and poster awards.** A jury will grant three awards to the presenting authors of the best student presentations and three awards to the presenting authors of the best posters during the closing session scheduled between **12:00** and **13:00** on **Saturday, 27\textsuperscript{th} May. Students and poster authors are requested to be at the closing session!**

**Abstracts** of all scientific contributions to the conference are published in the “Proceedings of the Zoo and Wildlife Health Conference 2017”.

In this “Conference Programme” booklet, the page number at the end of the title of each contribution indicates the page number of the corresponding contribution in the published proceedings.

**Networking:**

1. **Students general assembly:** Thursday, 25\textsuperscript{th} May, 18:00 – 19:00 (main lecture hall; H 0104)
2. **EAZA veterinary committee:** Thursday, 25\textsuperscript{th} May, 18:00 – 19:30
3. **EAZWV working group meetings** (specific information will be announced at the conference):
   - Thursday, 25\textsuperscript{th} May, during lunch and 19:00 – 19:30
   - Friday, 26\textsuperscript{th} May, during lunch and 18:30 – 19:00
4. **EAZWV general assembly:** Saturday, 27\textsuperscript{th} May, 14:00 – 15:30 (main lecture hall; H 0104 – everyone welcome)
SOCIAL EVENTS

Welcome evening (ice breaker). Wednesday, 24\textsuperscript{th} May, 19:00 – 22:00. We will meet at the Aquarium Berlin (Budapester Straße 32, 10787 Berlin) and greet colleagues over a variety of snacks and beverages.

Festive evening. Thursday, 25\textsuperscript{th} May, 20:00 – 23:00. We are looking forward to a special evening in the restaurant “Osteria Maria”.
Address restaurant: Osteria Maria, Leydenallee 79, 12167 Berlin-Steglitz.
The festive evening includes the five-course “Maria’s menue” with
- a variety of different starters
- homemade pasta
- entree
- main course
- a variety of different desserts
- aperitif, open red and white wine, mineral water, soft drinks, beer, grappa & espresso
Student-mentor-mixer. Friday, 26th May, 19:00 – 20:00, conference centre at the Technische Universität Berlin. The aim is to provide students with the chance to meet some of their potential future mentors and/or employers to ask questions and get in touch with them during short roundtable discussions. The topics will be about different aspects in zoo and wildlife medicine.

Students night out. Friday, 26th May, 20:30 – 23:30.
Organised by the EAZWV Student Section, this event became a very popular part of the social programme over the past years. It is the ideal spot to socialise with fellow students from all over the world and exchange experiences and ideas over a cold beer. Food and drinks will be provided, dancing mood is highly appreciated.
Exact time and place will be announced at the Students General Assembly (Thursday, 25th May, 18:00 – 19:00), so do not miss it!
Contact Johanna Kasberg: students@eazwv.org.

Conference banquet (zoo evening). Saturday, 27th May, 19:00 – 24:00, Tierpark Berlin.
The farewell evening will take place in the middle of the Tierpark Berlin, where participants will enjoy a welcome drink followed by a dinner including local dishes. During the zoo tour prior to the banquet, conference participants will have the opportunity to observe examples of animal management both in the Zoo and the Tierpark Berlin.
Sunday excursion, option 1: “Berlin by Boat”
28th May, 09:30 – 13:30

Departure: Cornelius Bridge, Corneliusstraße 11, 10787 Berlin
The boat trip will take you through the city center from Cornelius Bridge via Zoo, Unter-schleuse, Charlottenburg, Moabit, Tiergarten, Bellevue Palace, Haus der Kulturen der Welt, German Federal Chancellery, Government Quarter, Reichstag, Friedrichstraße, Museum Island, Berlin Cathedral, Nikolai Quarter, Millendammschleuse, Jannowitz Bridge, Oberbaum Bridge, Oberschleuse, further on the Landwehr Canal via Kreuzberg, Potsdamer Platz, Tiergarten back to Cornelius Bridge.

Sunday excursion, option 2: Lower Oder Valley National Park
28th May, 07:30 – 19:30

Departure: Technische Universität Berlin (main conference venue)
This excursion will take you to the Lower Oder Valley National Park, Germany’s only wetland national park. More than 145 bird species are breeding in this unique landscape. Due to its river valleys and frequently flooded meadows, the national park is a species-rich habitat for waterfowl as hatchery, resting and hibernation place. Guides from the “Wildnisschule Teerofenbrücke” will show you beautiful sites as well as the lab of the national park.

Accompanying persons are very welcome to participate in all social events provided that a place is booked for them by a conference participant.

Free entry for conference participants to the Zoo Berlin and Tierpark Berlin
All conference participants and accompanying persons who have registered have free entry to the Zoo Berlin, Aquarium Berlin and Tierpark Berlin from Wednesday, 24th May to Saturday, 27th May. Please be prepared to present your name badge at the entrance gates to obtain free entry.
## SCIENTIFIC PROGRAMME

### VENUES

**Workshops:** Zoo Berlin  
Zoo Restaurant, “Lichtensteinsalon”, entrance to the Zoo via Hardenbergplatz 8, 10787 Berlin

Technische Universität Berlin (main building)  
Straße des 17. Juni 135, 10623 Berlin

Leibniz Institute for Zoo and Wildlife Research (IZW)  
Alfred-Kowalke-Straße 17, 10315 Berlin

Freie Universität Berlin  
Institute for Virology, Robert-von-Ostertag-Straße 7-13, 14163 Berlin

Freie Universität Berlin  
Veterinarium Progressum, Oertzenweg 19B, 14163 Berlin

**Conference:** Technische Universität Berlin (main building)  
Straße des 17. Juni 135, 10623 Berlin

### 24th May

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
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<tbody>
<tr>
<td><strong>Starting at 08:30</strong></td>
<td>Registrations for workshop participants at different locations</td>
</tr>
</tbody>
</table>
| 09:00 - 13:00 | **Basics of immobilisation - drugs, technique, practice**  
**Andreas Ochs** (Zoo Berlin, Germany) |
| 14:00 - 17:00 | **Expeditionary veterinary medicine**  
**Christian Walzer** (University of Veterinary Medicine, Vienna) |
| 09:00 - 16:00 | **Wildlife field techniques - the use of invertebrates to monitor mammal diversity and diseases**  
**Fabian Leendertz** (Robert Koch Institute, Germany) |
| 09:00 - 18:00 | **Advanced Anaesthesia**  
**Christine Lendl** (Grünwald, Germany)  
**Carsten Grøndahl** (Copenhagen Zoo, Denmark) |
| 10:00 - 16:00 | **Parasites of arthropods and cold blooded vertebrates**  
**Frank Mutschmann** (Exomed/Veterinary Practice Mutschmann, Germany)  
**Nikolaus Osterrieder**  
**Walid Azab**  
**Alex D. Greenwood** (Leibniz Institute for Zoo and Wildlife Research (IZW), Germany) |

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<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
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</table>
| 09:00 - 16:00 | **Handling, clinical examination and treatment techniques in injured wild birds**  
Veterinarium Progressum  
**Kerstin Müller** (Freie Universität Berlin, Germany) |
| 09:00 - 15:00 | **Molecular diagnostics for elephant and equine herpes: a look behind the scenes**  
Institute of Virology (small course room)  
**Nikolaus Osterrieder** (Freie Universität Berlin, Germany)  
**Walid Azab** (Freie Universität Berlin, Germany)  
**Alex D. Greenwood** (Leibniz Institute for Zoo and Wildlife Research (IZW), Germany) |
The following two workshops will be held at the Leibniz Institute for Zoo and Wildlife Research (IZW):

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<thead>
<tr>
<th>Time</th>
<th>Workshop</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>09:00 - 16:30</td>
<td><strong>Zoo animal pathology</strong>&lt;br&gt;Karin Lemberger (Vet Diagnostics, France)&lt;br&gt;Claudia Szentiks (Leibniz Institute for Zoo and Wildlife Research (IZW), Germany)&lt;br&gt;Gudrun Wibbelt (IZW, Germany)</td>
<td></td>
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<tr>
<td>09:00 - 17:00</td>
<td><strong>The use of ultrasound and computed tomography in zoo animals</strong>&lt;br&gt;Thomas B. Hildebrandt (Leibniz Institute for Zoo and Wildlife Research (IZW), Germany)&lt;br&gt;Frank Goeritz (IZW, Germany)&lt;br&gt;Robert Hermes (IZW, Germany)&lt;br&gt;Guido Fritsch (IZW, Germany)&lt;br&gt;Susanne Holtze (IZW, Germany)</td>
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<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30 - 16:00</td>
<td><strong>Registration</strong>&lt;br&gt;Conference centre; Technische Universität Berlin; Straße des 17. Juni 135, 10623 Berlin</td>
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<tr>
<td>19:00 - 22:00</td>
<td><strong>Welcome evening – Ice breaker</strong>&lt;br&gt;Aquarium Berlin, Budapester Straße 32, 10787 Berlin</td>
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</tbody>
</table>
### Thursday

#### Registration
07:30 - 19:00
Registration (Conference centre)

#### Opening ceremony
08:00 - 08:30
Opening ceremony
(Steinmetz H, Greenwood AD, Hofer H, Naumann R, Knieriem A)

### Pathology and Infectious diseases

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<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>van den Brand JMA</td>
<td>Plenary talk: The role of (wild) animals in emerging viral zoonoses (p. 2)</td>
</tr>
<tr>
<td>09:30</td>
<td>Shilton CM</td>
<td>The pathology of invasive colonic entamoebiasis, an emerging disease of cane toads in Australia (p. 3)</td>
</tr>
<tr>
<td>09:45</td>
<td>Dervas E</td>
<td>A novel nidovirus in green tree pythons (<em>Morelia viridis</em>) as the causative agent of mucoid pneumonia (p. 4)</td>
</tr>
<tr>
<td>10:00</td>
<td>van Bolhuis H</td>
<td>Management of a tularemia outbreak in red tailed guenons (<em>Cercopithecus ascanius</em>) (p. 5)</td>
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### Herpetology

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<th>Title</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Hetzel U</td>
<td>Vertical Transmission of arenaviruses in BIBD diseased boid snakes (p. 11)</td>
</tr>
<tr>
<td>12:15</td>
<td>Thompson SB</td>
<td>Limiting transmitter associated morbidity and mortality in snakes (p.12)</td>
</tr>
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### Conservation and Wildlife I

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<tr>
<th>Time</th>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Walzer C</td>
<td>Plenary talk: Take a walk on the wild side – How can zoo-based veterinarians “help” wildlife? (p. 15)</td>
</tr>
<tr>
<td>15:00</td>
<td>Jayson SL</td>
<td>Veterinary input into the Zoological Society of London (ZSL) amphibian conservation programmes (p. 18)</td>
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<tr>
<td>15:15</td>
<td>Kvapil P</td>
<td>Why do animals in the zoo die? (p. 19)</td>
</tr>
<tr>
<td>15:30</td>
<td>Moriceau M-A</td>
<td>How can an animal poison call centre be involved in vultures conservation? (p. 20)</td>
</tr>
<tr>
<td>15:45</td>
<td>Hvilsom C</td>
<td>Bank on it! The EAZA biobank (p. 23)</td>
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### Coffee break & poster session
16:00
Coffee break & poster session
### 25<sup>th</sup> May

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<tr>
<td>16:30</td>
<td>Masters NJ</td>
<td>A multi-disciplinary approach to the conservation of gyps vultures in South Asia – a role for veterinary professionals</td>
<td>24</td>
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<td>16:45</td>
<td>Keller DL</td>
<td>Periodontal disease in the lesser bushbaby (&lt;i&gt;Galago moholi&lt;/i&gt;)</td>
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<td>17:00</td>
<td>Niphuis H</td>
<td>Screening Peruvian black spider monkeys (&lt;i&gt;Ateles chamek&lt;/i&gt;) as part of a reintroduction program into the Tambopato National Reserve</td>
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<td>17:15</td>
<td>Hakan M</td>
<td>Sleeping in tree holes may promote parasitism in wild lemurs</td>
<td>35</td>
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<td>17:30</td>
<td>Czirják GÁ</td>
<td>You are where you eat: high &lt;i&gt;Brucella&lt;/i&gt; seroprevalence in coastal but not inland arctic foxes</td>
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<td>17:45</td>
<td>Webster RKE</td>
<td>&lt;i&gt;Paranannizziospis australasiensis&lt;/i&gt; in tuatara</td>
<td></td>
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**18:00**

Students general assembly & EAZA veterinary committee & JZWM associate editors meeting (concurrent)

**19:00**

Working group meetings (specific information will be announced at the conference)

**20:00 - 23:00**

Festive evening

Italian Restaurant “Osteria Maria”, Leydenallee 79, 12167 Berlin-Steglitz

### 26<sup>th</sup> May

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<tr>
<td>08:00</td>
<td>Adkesson M</td>
<td>Diagnostics</td>
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<tr>
<td></td>
<td>Kasares M</td>
<td>Computerised tomography guided endoscopic sinus surgery in an adult western lowland gorilla (&lt;i&gt;Gorilla gorilla gorilla&lt;/i&gt;)</td>
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<td>Kasberg J</td>
<td>An update on cardiac disease of great apes – achievements and future directions of the ape heart project</td>
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<td>Liptovszky M</td>
<td>Gene analysis of hepcidin and blood levels in three different lemur species</td>
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<td>Lueders I</td>
<td>A full mouth speculum for elephants facilitating bronchoscopy, gastric tubing, and dental health evaluation</td>
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<td>van Zijll Langhout M</td>
<td>Evaluation of metabolic bone disease in wild and captive common spadefoot toads (&lt;i&gt;Pelobates fuscus&lt;/i&gt;)</td>
<td>43</td>
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<td></td>
<td>Holtze S</td>
<td>Ultrasound assessment of wild olms (&lt;i&gt;Proteus anguinus anguinus&lt;/i&gt;) in Croatia</td>
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<td>10:00</td>
<td>Adkesson MJ</td>
<td>Evaluation of a pressure-sensitive walkway system for gait characterisation in Humboldt penguins (&lt;i&gt;Spheniscus humboldti&lt;/i&gt;)</td>
<td>45</td>
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**10:15**

Martínez-Nevado E

Successful semen cryopreservation in black-footed penguin (<i>Spheniscus demersus</i>) and gentoo penguin (<i>Pygocelis papua</i>) | 47      |

**10:30**

Coffee break

**11:00**

Kasberg J

Yield of semen samples collected by urethral catheter compared to electroejaculation in African lion (<i>Panthera leo</i>) | 48      |

**11:15**

Ververs C

Reproductive performance parameters in a population of 1,000+ game-ranched white rhinoceroses (<i>Ceratotherium simum simum</i>) | 49      |

**11:30**

Hermes R

Birth management in white rhinoceroses (<i>Ceratotherium simum simum</i>) | 50      |

**11:45**

Fiuza R

The Sabah rhino breeding programme: Reproductive pathology of wild-caught Sumatran rhinoceroses and its implications in conservation | 51      |

**12:00**

Schwarzenberger F

Contraception in giraffes using the GnRH vaccine Improvac<sup>®</sup> | 52      |

**12:15**

Crespo-Picazo JL

Use of assisted reproductive techniques in fish species facing extinction: the European eel (<i>Anguilla anguilla</i>) case | 53      |
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<td>13:00</td>
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<td><strong>Legislation</strong></td>
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<td>14:00</td>
<td>Nuijten D, de Man D</td>
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<td>Plenary talk: Developments in the EU’s animal health legislation and EAZA’s new population management structure (p. 54)</td>
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<td>When elephants fall asleep – case studies and practical solutions for geriatric animals (p. 57)</td>
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<tr>
<td>15:15</td>
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<td>15:45</td>
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<td>A suspected case of psychosocial short stature in a female gorilla (<em>Gorilla gorilla gorilla</em>): when ape psychological disorders meet human’s (p. 60)</td>
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<td>16:00</td>
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<td>Larsen RS Czirják GÁ Grützmacher K Tuttle A Martínez Nevado E Popsce I</td>
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<td>Virulence traits, antibiotic resistance and clonality of enterococci isolated from lions (<em>Panthera leo</em>) of the Niassa National Reserve, Mozambique (p. 61)</td>
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<td>17:00</td>
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<td>Tuberculosis: TB or not TB</td>
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<td>Chair:</td>
<td>Lawrenz A Sanderson S</td>
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<td>The role of veterinary advisors</td>
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<td>Two further topics that arise at the meeting by popular demand</td>
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<td>18:30</td>
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<td>Saturday</td>
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<td>Voracek T Lobo Fernandes T Kvapil P</td>
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<td>08:30</td>
<td>Bernardino RI</td>
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<td>09:30</td>
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<td>Surgical management and identification of 3 different new tumors in captive eastern quolls (<em>Dasyurus viverrinus</em>) (p. 66)</td>
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<tr>
<td>10:00</td>
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<td>14:00</td>
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<tr>
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VENUES

Conference centre (registration, conference, lunch)

Technische Universität Berlin (main building)
Straße des 17. Juni 135
10623 Berlin

Workshops (on Wednesday, 24th May 2015)

Zoo Berlin
Hardenbergplatz 8
10787 Berlin

Technische Universität Berlin
Straße des 17. Juni 135
10623 Berlin

Leibniz Institute for Zoo and Wildlife Research (IZW)
Alfred-Kowalke-Straße 17
10315 Berlin

Freie Universität Berlin
Institute for Virology
Robert-von-Ostertag-Straße 7-13
14163 Berlin

Freie Universität Berlin
Veterinarium Progressum
Oertzenweg 19B
14163 Berlin

Conference registration & information desk
The conference office is directly located at the conference centre.

Opening times of the conference registration & information desk:

- Wednesday, 24th May 08:30 - 16:00 Conference centre
- Thursday, 25th May 07:30 - 19:00 Conference centre
- Friday, 26th May 08:00 - 19:00 Conference centre
- Saturday, 27th May 08:00 - 12:00 Conference centre

The staff at the registration and information desk will be happy to help you with any questions and problems regarding the conference. Tourist and sightseeing information will be provided.

Notice and communication boards for announcements, changes, waiting lists or additions to the programme will be located at the registration & information desk. Messages for other participants can be posted there as well.

Coffee/tea and other refreshments will be served during breaks; lunch will also be served in the conference centre.
## RECOMMENDED ACCOMMODATIONS

### HOTELS

**Hotel Wyndham Excelsior Berlin**  
Hardenbergstraße 14, 10623 Berlin  
Phone: +49 30 61 08 19 410  
Fax: +49 30 31 55 1002  
Email: reservation.berlin@grandcityhotels.com  
Website: https://www.wyndhamberlinexcelsior.com/en

**Hotel SANA Berlin**  
Nürnberger Straße 33/34, 10777 Berlin  
Phone: +49 30 2005 151-851  
Fax: +49 30 2005 151-9  
Email: rsv1.berlin@sanahotels.com  
Website: http://www.berlin.sanahotels.com/en/the-hotel

**Mercure Hotel Berlin Alexanderplatz**  
Mollstraße 4, 10178 Berlin  
Phone: +49 30 214 80 28 28  
Fax: +49 30 214 80 28 91  
Email: reservation@agon-group.com  
Website: http://www.accorhotels.com/de/hotel-8312-mercure-hotel-berlin-am-alexanderplatz/index.shtml#section-reviews

**Hotel Indigo Berlin Ku'Damm**  
Hardenbergstraße 15, 10623 Berlin  
Phone: +49 30 2602 1287  
Fax: +49 30 860 90 99 99  
Email: info.indigoberlin@ihg.com  

**Hotel Ellington Berlin**  
Nürnberger Straße 50-55, 10789 Berlin  
Phone: +49 30 68 315 2301  
Fax: +49 30 68 315 5555  
Email: reservierung@ellington-hotel.com  
Website: http://www.ellington-hotel.com/

**art’otel Berlin Ku’Damm**  
Lietzenburger Strasse 85, 10719 Berlin  
Phone: +49 30 400 557 700  
Fax: +49 30 400 557 777  
Email: abcre@pphe.com  
Website: https://www.artotels.com/berlin-hotel-de-d-10719/gerbrart

**Hotel abba Berlin**  
Lietzenburger Str. 89, 10719 Berlin  
Phone: +49 30-8871860  
Fax: +49 30-88007851  
Email: reservations-berlin@abbahotels.com  
Website: https://www.abbaberlinhotel.com/de/home.html

Please refer to the code 'Leibniz-IZW' when booking your hotel room.
ORGANISATION

The Zoo and Wildlife Health Conference 2017 is organised by the Leibniz Institute for Zoo and Wildlife Research (IZW, Berlin, Germany), the European Association of Zoo and Wildlife Veterinarians (EAZWV, Liebefeld-Berne, Switzerland), in cooperation with the Zoo and Tierpark Berlin (Berlin, Germany).

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