JOINT EAZWV/ECZM/LEIBNIZ-IZW
ZOO AND WILDLIFE HEALTH CONFERENCE
JUNE 12-15, 2019 | KOLMÅRDEN, SWEDEN
EAZWV
EUROPEAN COLLEGE
ECZM
of ZOOLOGICAL MEDICINE
Leibniz Institute for Zoo
and Wildlife Research
IN THE FORSCHUNGSVERBUND BERLIN E.V.
KOLMÅRDEN

WELCOME TO KOLMÅRDEN!

This conference you will be staying at Vildmarkshotellet, situated just outside the gates of Kolmården Wildlife Park. Both the hotel and the park are nestled in to the forest and mountains surrounding them. A beautiful place, densely forested with a breath-taking outlook over the Baltic Sea. I hope the surroundings will inspire you and provide you with unforgettable memories from this years Zoo and Wildlife Health Conference.

Kolmården is the largest Zoo in Northern Europe, covering 1.5 square kilometres (370 acres), and also the most visited Zoo in Sweden. We are proud that 700 000 visitors come to us every year although the Zoo is actually closed during the winter. Our goal is to inspire children and adults to engage in wildlife and its preservation. Due to our large number of visitors we have the means to really make a difference and we intend to keep doing so, but also to intensify that work.

Kolmården is one of the most loved company brands in Sweden. This gives us the opportunity to get attention when we express concern for the urgency of climate change. Kolmården will speak out, be a refuge for endangered species, work relentlessly to improve wildlife conditions in other parts of the world and we will participate in more projects where we reinstate our animals back in to the wild.

I am very proud over the people who work here at Kolmården, they are so committed to the welfare of our animals. Our veterinarian team of course playing a key part in this important work. I am pleased to welcome their colleagues from all over Europe - both to inspire them but I also hope that their work will inspire you. I have seen them and other persons in our team work very hard this spring to be able to offer you an ample agenda.

Also, I hope you will enjoy a visit in the park itself;

Don´t miss our rhino calf, Ami, she might be the cutest thing you have ever seen. My favourites are the meerkats and they actually live in the same building as Ami. Don't miss our dolphin show "Life", board the Safari gondola, and watch the Birds of Prey Show "Wings".

For the daredevils – take a ride on Wildfire - the greatest wooden rollercoaster in the world. With three inversions, a top speed of over 110 km/h, a drop angle of 83 and 12 airtime moments this ride is a real thrill!

You can also meet Bamse – the world's strongest bear – and his friends in a magical world of their own just on top of the hill from the entrance. Lot's to do and see, please enjoy!

And finally - from all of us at Kolmården a very warm welcome to all participants of the Zoo and Wildlife Health Conference 2019!

Christine Karmfalk
CEO Kolmården

Alex D. Greenwood
Stefanie Lenz
Josepha Prügel
Steven Seet

Leibniz Institute for Zoo and Wildlife Research
IN THE FORSCHUNGSVERBUND BERLIN E.V.

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

Torsten Möller
Pia Johansson
Anders Leijon
Cecilia Lindh
Rickard Sjödén

Kolmården

Kolmården Wildlife Park
Kolmården,
Sweden

Hugo Fernández Bellon
Rafaela Fiúza
Sabine Öfner
Stephanie Sanderson
Endre Sós
Hanspeter Steinmetz

EAZWV

European Association of Zoo and Wildlife Veterinarians (EAZWV)
Schaffhausen,
Switzerland

Simon Girling
Areti Kesisoglou
Debbie Myers
Steve Smith

EUROPEAN COLLEGE ECZM of ZOOLOGICAL MEDICINE

European College of Zoological Medicine (ECZM)
Utrecht,
The Netherlands

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ACKNOWLEDGEMENT - SPONSORS

We wish to thank the supporters of the conference:

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CONTINUING EDUCATION CREDITS PROVIDED BY:

ACZM – American College of Zoological Medicine

ATF - Akademie für tierärztliche Fortbildung (Academy of Veterinary Continuing Education)

GST - Gesellschaft Schweizer Tierärztinnen und Tierärzte (Society of Swiss Veterinarians)

HOW TO GET TO KOLMÅRDEN

Vildmarkshotellet in Kolmården is located about 170 km (105 miles) south of Stockholm. The nearest city is Norrköping. If you come by car, follow the signs from Highway E4.

TAXI

Taxi or bus transfer can be pre booked by our partner Kolmårdens buss Taxi from Linköping Airport, Skavsta Airport, Norrköping Central Station and Kolmården train station to Vildmarkshotellet, as well as on the way back. This opportunity is limited and can be pre booked at info@kolmardensbuss.se or tel 0046(0)11-391107.

Taxis can also be booked with Taxibil i Östergötland tel. 0046(0)11-100 100 and Vikbolands taxi tel. 0046(0)160 000

BY AIR

Arlanda, Sweden's biggest airport, is located north of Stockholm. The Arlanda express train links with Stockholm, where you can take the SJ-train to Kolmården train station or Norrköping Central station. From the train stations you either choose local bus, Östgötatrafiken (bus number 432 or 433), or taxi, to Vildmarkshotellet. Please note, taxis from Kolmården train station to Vildmarkshotellet has to be pre ordered. Taxi from Norrköping Central station or Kolmården train station can be pre booked through Kolmårdens buss Taxi info@kolmardensbuss.se or tel 0046(0)11-391107.

Skavsta, is about 50 km away and has limited bus and train services to Kolmården. Flygbussarna.se arrange scheduled buses from Skavsta Airport to Norrköping Central station. At Norrköping Central station you take the local bus Östgötatrafiken (number 432 or 433) to Vildmarkshotellet. You can otherwise pre book a taxi through Kolmårdens buss Taxi info@kolmardensbuss.se or tel 0046(0)11-391107.

LINKÖPING AIRPORT

From Linköping Airport you can take the local bus Östgötatrafiken (number 16) to Linköping Resecentrum. At Linköping Resecentrum you change to the Östgötapendeln train to Norrköping Central station. At Norrköping Central station you take the local bus Östgötatrafiken (number 432 or 433) to Vildmarkshotellet. You can also pre book a taxi from Linköping Airport to Kolmården through Kolmårdens buss Taxi info@kolmardensbuss.se or tel 0046(0)11-391107.

BY RAIL

You can get to Vildmarkshotellet by train from any station in Sweden. The nearest stations are Kolmården train station and Norrköping Central station, from where Östgötatrafiken buses (number 432 or 433) will take you all the way to the hotel entrance. For timetables and fares, please see the SJ (Swedish Railways) website. You can also pre book a taxi through Kolmårdens buss Taxi info@kolmardensbuss.se or tel 0046(0)11-391107.

VENUE

CONFERENCE CENTRE:
Vildmarkshotellet
Kolmården
618 92 Kolmården
Sweden

WI-FI AT THE HOTEL:
Username: ZWHC
Password: Kolmarden2019

CONTACT DURING YOUR STAY:
E-Mail: receptionen@vildmarkshotellet.com
Phone: +46 (0)10 708 77 05

VILDMARKS HOTELLET

FLOOR PLAN VILDMARKSHOTELLET

4TH FLOOR (MAIN HALL)

Vargen | Havsörnen | Berguven | Duvhöken

3RD FLOOR (ENTRANCE FLOOR)

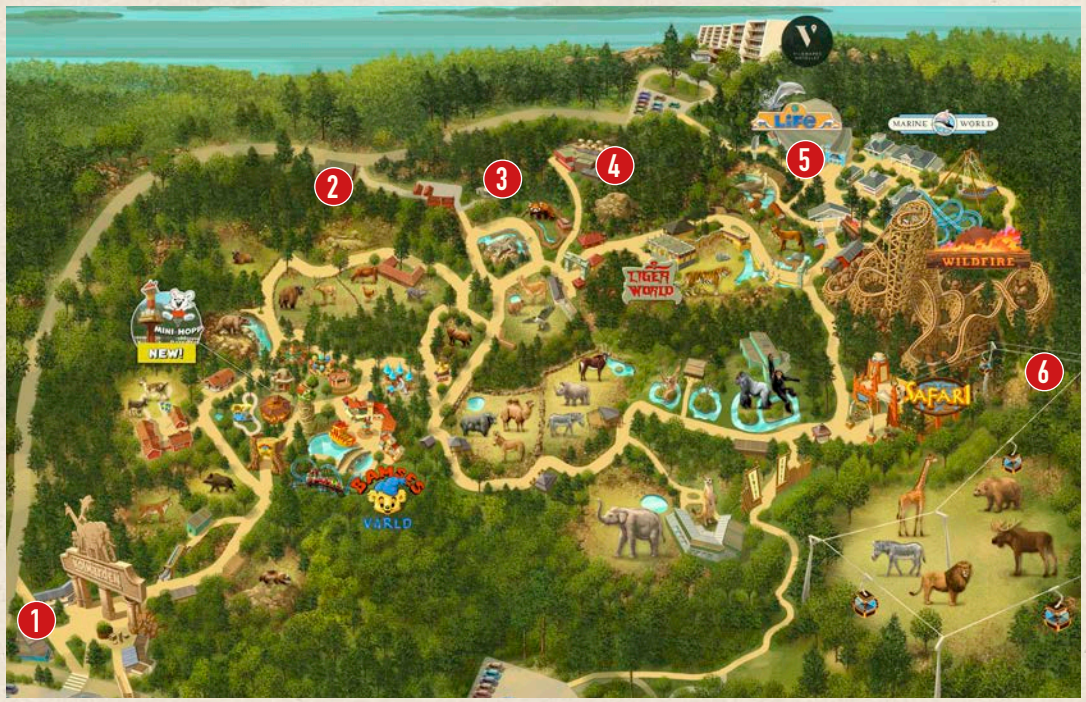
Älgen | Björnen | Räven | Mården | Restaurant Terassen

2ND FLOOR

1ST FLOOR

Sälen | Uttern | Tumlaren | Bävern | Spa and gym
Hägern | Svanen | Ejdern | Bakfickan

WORKSHOP LOCATIONS IN KOLMÅRDEN WILDLIFE PARK



1. TROPICARIUM
2. RESEARCH AND EDUCATION CENTRE
3. KOLMÅRDEN CHURCH
4. RESTAURANT SAFARI
5. DOLPHINARIUM
6. SAFARI CAMP

SOCIAL EVENTS

ICE BREAKER (WELCOME EVENING), WEDNESDAY, 12TH JUNE, 19:00 – 22:00, TERASSEN RESTAURANT, VILDMARKSHOTELLET
We will meet at the conference venue "Vildmarkshotellet" and greet colleagues over a variety of snacks and beverages.

STUDENT-MENTOR-MIXER, THURSDAY, 13TH JUNE, 18:00 – 19:00, SÄLEN CONFERENCE ROOM, VILDMARKSHOTELLET
This event is open to anyone registered as student. The aim is to provide students with the chance to meet some of their potential future mentors and/or employers. In a casual atmosphere students can get in touch with the mentors during short round-table discussions, ask questions and get advice regarding career path, work experience, training, etc.

BBQ, THURSDAY, 13TH JUNE, 20:00 – 23:00, RESTAURANT "SAFARI"
On Thursday evening, all conference participants are invited to a delicious BBQ at the zoo restaurant "Safari".

POSTER AND PASTA PARTY, FRIDAY, 14TH JUNE, 20:00 – 22:30, MAIN HALL, VILDMARKSHOTELLET
You will be invited to enjoy and discuss poster presentations while having some good pasta and drinks.

MUSIC BAR, FRIDAY, 14TH JUNE, AFTER THE POSTER AND PASTA PARTY
After the poster and pasta-party, everyone is invited to shake a leg to some good music. Beverages will be offered for sale.

ZOO VISIT, SATURDAY, 15TH JUNE, 14:00 – 18:30
Kolmården Zoo and Wildlife Park invites all conference attendees to visit their facilities on Saturday afternoon. See map on the next page.

FREE ADMISSION FOR CONFERENCE PARTICIPANTS TO KOLMÅRDEN ZOO AND WILDLIFE PARK
All participants and accompanying persons who have registered for the conference have free admission to Kolmården Zoo and Wildlife Park during the whole conference. Please be prepared to present your name badge at the entrance gates to obtain free entry. Family members who have not registered can purchase a special ticket in the Vildmarkshotellet reception for the whole week for the price of a 2-day-ticket (adults SEK 549, children 3-12 years old SEK 499).

CONFERENCE BANQUET, SATURDAY, 15TH JUNE, 19:30 – 24:00, MAIN HALL, VILDMARKSHOTELLET
The banquet is always one of the highlights of the conference. It will take place on the last evening in the conference venue Vildmarkshotellet.

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

ZOO VISIT, SATURDAY, 15TH JUNE, 14:00 - 18:30

May be subject to changes.

PUBLIC SHOWS (IN SWEDISH)

	TIME	PLACE	ACTIVITY
1	14.00 & 16.00	DOLPHINARIUM	DOLPHIN SHOW LIFE
2	15.00	MARINE WORLD	SEAL SHOW
3	14.00	TIGER WORLD	TIGER PRESENTATION
4	15:30	SOUTH AMERICA	SOUTH AMERICA PRESENTATION

EXCLUSIVE CONFERENCE PROGRAMME

	TIME	PLACE	ACTIVITY
1	15.30	KOLOSSEUM	ELEPHANT TRAINING DEMO
2	15.30	VETERINARY CLINIC	PRESENTATION
3	15.30	RESEARCH AND EDUC. (FOU)	PRESENTATION OF ACTIVITIES
4	15.30	TIGER WORLD	PRESENTATION
5	16:00	DOLPHIN LAGOON	EDUCATIONAL PRESENTATION
6	17:00	ZOO SAVANA LODGE	HEALTH ASPECTS OF MIXED EXHIBITS
7	18.00	BIRD SHOW ARENA	WINGS AND GROUP PHOTO

SCIENTIFIC PROGRAMME – GENERAL INFORMATION

COPYRIGHT REGULATIONS

Please note that in your own interest and for copyright reasons it is strictly forbidden to take pictures, videos and sound recordings of any conference contribution especially unpublished data during the whole conference. This includes especially talks, discussions, posters and round table discussions. You may not take pictures or copies of slide shows, posters and abstracts from the Conference Proceedings. You may not use twitter, facebook & Co to distribute unpublished data. Pictures may be taken only upon authorisation by the authors and/or copyright holders. Anyone who violates the copyrights will be expelled from the conference and they are accountable to the law if they violate copyrights or steal data.

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 Vildmarkshotellet in Kolmården, Sweden. There will be four plenary talks. Contributed talks will be held in 15 sessions and are scheduled with 8 or 11 min (depending on the session) followed by 1-2 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 upon their arrival 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 and pasta party (Friday, 20:00 - 22:30). Poster mounting starts on Wednesday, 12th June, at 17:00. Posters should be removed by Saturday, 15th June, 14:00. All posters not removed by this time will be disposed of.

Abstracts of all scientific contributions to the conference are published in the “Proceedings of the Zoo and Wildlife Health Conference 2019”.

SCIENTIFIC PROGRAMME

12TH JUNE WEDNESDAY	
	Workshops: parallel sessions. Different locations as given below
07:15 – 09:00 **12:00 – 14:00** **17:00 – 20:00**	**Registration and conference desk open** (Conference venue Vildmarkshotellet)
08:00 - 16:00	**EZCM-ACZM SHORT COURSE** Maya Kummrow (Clinic for Zoo Animals, Exotic Pets and Wildlife / Zurich Zoo, Switzerland) ***Location: Bakfickan 1 (Conference venue Vildmarkshotellet)***
08:00 - 14:00	**REPTILE MEDICINE AND HANDLING** Rachel Marschang (Laboklin GmbH & Co. KG, Germany) ***Location: Kolmårdens Tropicarium***
08:00 - 17:00	**ADVANCED ANAESTHESIA** Carsten Grøndahl (Copenhagen Zoo, Denmark) Christine Lendl (Grünwald, Germany) Torsten Möller (Kolmården Zoo and Wildlife Park, Sweden) ***Location: Safari Camp (big tent)***
09:00 - 17:00	**1ST ZOO AND WILDLIFE PATHOLOGY WORKSHOP** Karin Lemberger (Faunapath / Vet Diagnostics, France) Maja Ruetten (PathoVet AG, Switzerland) ***Location: Bakfickan 2 (Conference venue Vildmarkshotellet)***
08:00 - 12:00	**FIELD ANAESTHETIC AND SURGICAL TECHNIQUES** Jon Arnemo (Inland Norway University of Applied Sciences, Norway / Swedish University of Agricultural Sciences, Sweden) ***Location: Kolmården Church***
09:00 - 17:00	**THE BASICS OF IMMOBILIZATION OF ZOO MAMMALS** Bengt Röken (Kolmården Zoo and Wildlife Park, Sweden) Anita Burkevica (Parken Zoo Eskilstuna, Sweden) ***Location: Research and education centre (FOU) – Cinema***
09:00 - 17:00	**ZOO DENTISTRY - THE HYPSODONT, THE SPECIALIST OF GRINDING GRASS!** Torbjörn Lundström (Djurtandvardskliniken Equine Dentistry / Swedish University of Agricultural Science, Sweden) Bim Boijsen (Kolmården Zoo and Wildlife Park, Sweden) ***Location: Research and education centre (FOU) – Large and small classroom***
09:00 - 17:00	**MEDICAL TRAINING - CONDITIONING ANIMALS TO PARTICIPATE IN MEDICAL PROCEDURES** Peter Giljam (Kolmården Zoo and Wildlife Park, Sweden) Geraldine Lacave (MMVS, Belgium) Louise Guevara (Kolmården Zoo and Wildlife Park, Sweden) ***Location: Restaurant Safari***
09:00 - 17:00	**ADDRESSING CETACEAN MEDICINE** Tania Monreal-Pawlowsky (International Zoo Veterinary Group, UK) ***Location: Dolphinarium (DC room)***
19:00 - 22:00	**ICE BREAKER/WELCOME EVENING** (Restaurant Terassen, Vildmarkshotellet)

13TH JUNE THURSDAY

07:15 – 08:30 **10:00 – 11:00** **12:30 – 14:30** **15:45 – 16:45**		Registration & conference desk open (Conference venue Vildmarkshotellet)
08:00 – 08:20		**Opening ceremony** (Main hall, Vildmarkshotellet)
Session chairs	**Bröjer C Konjevic D**	**Wildlife conservation I**
08:20	**Arnemo J**	**PLENARY TALK: 30 YEARS EXPERIENCE IN WILDLIFE RESEARCH**
09:10	Boesen A	SCREENING FOR LEAD IN SCANDINAVIAN BROWN BEARS *(URSUS ARCTOS)*
09:24	Quintard B	VETERINARY FOLLOW-UP OF A LOCAL REINTRODUCTION PROGRAM *(EMYS ORBICULARIS)*: FROM THE EGG TO THE WILD!
09:38	Reckendorf A	THE OTTER WAY OF WILDLIFE MANAGEMENT – OTTER-FRIENDLY EXITS FROM FISH FYKES SUCCESSFULLY DEVELOPED IN COLLABORATION WITH STAKEHOLDERS
09:52	Sós E	FROM THE "PUSZTA" TO THE STEPPE – LARGE SCALE PRZEWALSKI'S HORSE *(EQUUS FERUS PRZEWALSKII)* TRANSPORT FROM THE HORTOBÁGY NATIONAL PARK TO RUSSIA
10:06		**Coffee break**
Session chairs	**Lüders I Hermes R**	**Reproductive medicine**
10:35	Callealta I	NON-SURGICAL ARTIFICIAL INSEMINATION IN AFRICAN LIONESSES *(PANTHERA LEO)* AFTER OVULATION INDUCTION WITH A GNRH ANALOGUE
10:49	Crosta L	AVIAN INCUBATION
11:03	Koeppel K	FLAMINGO CRISIS- MEDICAL CHALLENGES IN RAISING LESSER FLAMINGO CHICKS
Session chairs	**Greunz E Leclerc A**	**Diagnostics**
11:17	Cole G	BLOOD COAGULATION ASSESSMENT OF CAPTIVE ASIAN ELEPHANTS *(ELEPHAS MAXIMUS)* USING VISCOELASTIC POINT-OF-CARE UNITS
11:31	Cummings C	RECOMBINANT HUMAN TISSUE FACTOR AND KAOLIN-ACTIVATED THROMBOELASTOGRAPHY (TEG) IN CLINICALLY HEALTHY ADULT ALPACAS (VICUGNA PACOS)
11:45	Esparza K	FAECAL INFLAMMATORY BIOMARKERS IN CAPTIVE TIGERS *(PANTHERA TIGRIS)*
11:59	Lueders I	ADVANCED DIAGNOSTIC OPTIONS FOR RENAL DYSFUNCTION IN ASIAN ELEPHANTS *(ELEPHAS MAXIMUS)*
12:13	Myers D	URINE AS A PREDICTOR OF CARNIVORE HEALTH
12:27	Perrin K	ACUTE PHASE REACTANTS IN HEALTHY, SICK AND DEVIL FACIAL TUMOUR DISEASE-AFFECTED TASMANIAN DEVILS *(SARCOPHILUS HARRISII)*
12:41		**EAZWV working group reports**
13:05		**Lunch break**
Session chairs	**Delnatte P Origgi F**	**Reptile and amphibian medicine**
14:15	**Marschang R**	**PLENARY TALK: REPTILE INFECTIOUS DISEASES WITH A FOCUS ON EUROPE**
15:05	Flach E	POST MORTEM FINDINGS IN EIGHT SPECIES OF CAPTIVE CAECILIAN *(GYMNOPHIONA)* OVER A TEN-YEAR PERIOD
15:19	Gantner L	COMPARISON OF THE EFFECT OF ALFAXALONE VS MEDETOMIDINE AND KETAMINE FOR INDUCTION OF ANAESTHESIA IN TRACHEMYS SCRIPTA SP. UNDERGOING STERILISATION
15:33	Hoby S	EPIZOOTIC MYCOBACTERIOSIS IN COLORADO RIVER TOADS *(INCILIUS ALVARIUS)* – PATHOLOGY AND CLINICAL CHALLENGE
15:47	Leineweber C	SEASON AND SEX SPECIFIC THYROID HORMONE LEVELS IN DIFFERENT EUROPEAN TORTOISE SPECIES *(TESTUDO SPP.)*
16:01	Shopland S	CORNEAL LIPIDOSIS IN TWO COLLECTIONS OF LEMUR LEAF FROGS *(AGALYCHNIS LEMUR)*
16:15		**Coffee break**
Session chairs	**Koroknai V Quintard B**	**Other topics**
16:45	Vitali F	ETORPHINE-AZAPERONE IMMOBILISATION FOR TRANS-LOCATION OF FREE-RANGING MASAI GIRAFFES *(GIRAFFA CAMELOPARDALIS TIPPELSKIRCHI)* IN KENYA
16:59	Steinmetz H	THE BENEFIT OF SAND SUBSTRATE AND EXERCISE ON FOOT HEALTH IN ASIAN ELEPHANTS *(ELEPHAS MAXIMUS)*
17:13	van Wessem C	HEMIMANDIBULECTOMY IN PYGMY SLOW LORIS *(NYCTICEBUS PYGMAEUS)*: A TREATMENT OPTION FOR ADVANCED DENTAL DISEASE
17:27	Mota S	CASE REPORT: DECOMPRESSIVE SURGERY IN A RED FOX *(VULPES VULPES)* –REHABILITATION OF A PARAPARETIC WILD MAMMAL
18:00 – 19:00		**EAZWV working group meetings**
18:00 – 19:00		**Student mentor mixer** (Conference room Sälen)
19:30 – 20:00		**Dolphin show** (Dolphinarium)
20:00 – 23:00		**BBQ** (Restaurant Safari)

14TH JUNE FRIDAY

07:15 - 08:30 09:45 - 10:45 12:30 - 14:30 16:00 - 17:00		**Registration & conference desk open**
Session chairs	**Adkesson M Pizzi R**	**Diagnostic imaging**
08:00	Barton L	A RETROSPECTIVE RADIOLOGICAL STUDY OF DEGENERATIVE ARTHROPATHIES OF CAPTIVE LARGE CATS: PREVALENCE, SEVERITY AND DISTRIBUTION
08:14	Fernández-Bellon H	HOW TO BUILD A CHEAP INFRARED ANIMAL BEHAVIOUR MONITORING AND RECORDING SYSTEM USING A RASPBERRY PI ™
08:28	Garcia Parraga D	EFFECTS OF 3T MAGNETIC RESONANCE IMAGING EXPOSURE ON THE BEHAVIOUR AND ORIENTATION IN MAGNETIC SENSITIVE SPECIES: HOMING PIGEONS *(COLUMBA LIVIA)* AND LOGGERHEAD SEA TURTLES *(CARETTA CARETTA)*
08:42	Locquet L	TRANSTHORACIC ECHOCARDIOGRAPHY AND CARDIAC BIOMARKERS IN HEALTHY CAPTIVE MALE AND FEMALE SQUIRREL MONKEYS *(SAIMIRI SPP.)*
08:56	Rojo-Solis C	CASE REPORT: ENDOSCOPIC RESOLUTION OF EGG-YOLK COELOMITIS IN BLACKCHIN GUITARFISH *(GLAUCOSTEGUS CEMICULUS)*
09:06	Bruins-van Sonsbeek L	CASE REPORT: MONITORING OVARIAN CYCLICITY IN A CAPTIVE KOMODODRAGON *(VARANUS KOMODOENSIS)* BY ULTRASOUND EXAMINATION
Session chairs	**Bröjer C Konjevic D**	**Wildlife conservation II**
09:16	Walzer C	GOING TO THE DOGS – GLOBAL CONSERVATION IMPACTS ON WILDLIFE FROM DOMESTIC DOGS
09:30	Warren K	WILDLIFE CONSERVATION MANAGEMENT AT THE NEXUS OF VETERINARY SCIENCE AND ECOLOGY – THE DEVELOPMENT OF A NOVEL DOUBLE TAGGING SYSTEM ENABLING TRACKING OF ENDANGERED BLACK COCKATOOS IN WESTERN AUSTRALIA.
09:44	Wenker C	SURPRISING BIODIVERSITY BETWEEN ZOO ENCLOSURES - A POTENTIAL INTERFACE TO VETERINARY CARE AND RESEARCH
09:58		**Coffee break**
Session chairs	**Hydeskov H Hard T**	**The role of infectious diseases in wildlife conservation**
10:30	Masters N	MYCOBACTERIUM TUBERCULOSIS COMPLEX DIAGNOSTICS IN ASIATIC LION *(PANTHERA LEO SSP. PERSICA)*
10:44	Milnes E	TICK-BORNE DISEASE IN A CHANGING CLIMATE: INVESTIGATING THE EMERGENCE OF BABESIA ODOCOILEI IN CANADIAN CERVIDS
10:58	Sós-Koroknai V	TRENDS AND INCIDENCE OF WEST NILE VIRUS INFECTION IN GOSHAWKS *(ACCIPITER GENTILIS)* IN A HUNGARIAN WILDLIFE RESCUE CENTER OVER THE PAST 10 YEARS
11:12	Vercammen F	RESPIRATORY DISEASE IN CAPTIVE BONOBOS *(PAN PANISCUS)*

Session chairs	**van Bolhuis H Hoby S**	**Anaesthesia in zoological medicine**
11:26	Bohner J	COMPARISON OF THREE DIFFERENT IMMOBILIZATION PROTOCOLS IN SEMI-WILD KHULANS *(EQUUS HEMIONUS)*
11:40	Einwaller J	EFFECTS OF THE PERIPHERAL A2-ADRENOCEPTOR ANTAGONIST VATINOXAN ON MEDETOMIDINE-INDUCED BRADYCARDIA AND HYPERTENSION IN RED DEER *(CERVUS ELAPHUS)*
11:54	Feltrer Rambaud Y	COMPARISON OF ARTERIAL BLOOD GASES AND OTHER PHYSIOLOGICAL PARAMETERS BETWEEN TWO ANAESTHETIC PROTOCOLS IN SEMI-FREE RANGING SANCTUARY CHIMPANZEES
12:08	Greunz E	THE IMPACT OF VATINOXAN ON A MEDETOMIDINE-BASED ANAESTHESIA IN PATAGONIAN MARAS *(DOLICHOTIS PATAGONUM)*
12:22	Painer J	CHALLENGES IN WILD BOAR *(SUS SCROFA)* ANAESTHESIA. COMPARISON OF TWO ANAESTHETIC PROTOCOLS IN FOOD-PRODUCING VS. NON-FOOD PRODUCING WILD BOARS
12:36	Sainmaa S	CARDIOVASCULAR EFFECTS OF INTRAMUSCULAR VATIN OXAN IN BHARALS *(PSEUDOIS NAYAUR)* IMMOBILIZED WITH MEDETOMIDINE-KETAMINE
12:50		**Lunch break**
Session chairs	**Painer J Grøndahl C**	**Zoological medicine in the field**
13:50	Sonne C	PLENARY TALK: VETERINARY ECOTOXICOLOGY AND ONE HEALTH IN THE ARCTIC
14:40	Adkesson M	ANAESTHESIA OF FREE-RANGING PERUVIAN FUR SEALS *(ARCTOCEPHALUS AUSTRALIS)* USING MEDETOMIDINE, MIDAZOLAM, AND BUTORPHANOL
14:54	Boardman W	ON A WING AND A PRAYER: INVESTIGATING THE VIRAL SEROPREVALENCE OF A RANGE EXPANDING SPECIES OF FLYING FOX
15:08	Lamglait B	HEALTH ASSESSMENT OF MUSKOX *(OVIBOS MOSCHATUS)* IN NUNAVIK, QUEBEC, CANADA
Session chairs	**Stagegaard J Ashpole I**	**Research in zoo and wildlife medicine**
15:22	McLelland D	CHARACTERISATION OF THE ORAL MICROBIOME IN MACROPOD PROGRESSIVE PERIODONTAL DISEASE *(LUMPY JAW)*-AFFECTED COMPARED WITH HEALTHY MACROPODS USING NEXT-GENERATION SEQUENCING
15:36	Thorel M	CLOUDED LEOPARD (*NEOFELIS NEBULOSA)* MORBIDITY AND MORTALITY IN CAPTIVE POPULATIONS: A COMPREHENSIVE RETROSPECTIVE STUDY OF MEDICAL DATA FROM 271 INDIVIDUALS IN EUROPEAN, ASIAN AND AUSTRALIAN ZOOS
Session chairs	**Kummrow M Gamble K**	**Therapeutics**
15:50	Desmarchelier M	PHARMACOKINETICS AND CLINICAL EFFECTS OF A SINGLE ORAL DOSE OF TRAZODONE IN DOMESTIC GOATS *(CAPRA HIRCUS)* AS A MODEL FOR WILD RUMINANTS
16:04	Almagro V	CASE REPORT: STEM CELL THERAPY OF CHRONIC RENAL DISEASE IN TWO WILD FELIDS
16:14		**Coffee break**

Session chairs	Calvo Carrasco D Fischer D	Avian medicine and surgery
16:45	Leclerc A	THE NEVER-HEALING HEEL – A FOCUS ON THE AVIAN INTERTARSAL JOINT
16:59	Braud C	CASE REPORT: DISTAL TIBIOTARSAL FRACTURE REPAIR IN A SCARLET IBIS *(EUDOCIMUS RUBER)* USING A CIRCULAR EXTERNAL FIXATOR
17:09	Tully Jr, T	CASE REPORT: TREATMENT OF EXUBERANT GRANULATION TISSUE IN AN UMBRELLA COCKATOO *(CACATUA ALBA)* WITH STRONTIUM RADIATION
17:20 - 18:40		**Round tables** **Abnormal behaviour/ psychopathologies in primates and other zoo animals** (Kummrow M, Desmarchelier M) **Ethics - Euthanasia policy - different opinions in Europe** (Martinez Nevado E, Bertelsen M, Schauerte N) **Ethics and welfare in wildlife interventions** (Arnemo J, Lopez J) **Dealing with animal rights activists and media** (Ternes K, Fernandez H, Hard T)
18:40 – 19:40		**EAZWV working group meetings**
18:40 – 19:40		**Students general assembly** (Main hall, Vildmarkshotellet)
20:00 – 22:30		**Poster and pasta party** (Main hall, Vildmarkshotellet)
22:30		**Music bar**

15TH JUNE SATURDAY

07:15 - 08:30 09:45 – 10:45		**Registration & conference desk open**
Session chairs	**Clayton L Ternes K**	**Marine mammal diagnostics**
08:15	**Monreal-Pawlowsky T**	**PLENARY TALK: VETERINARY MANAGEMENT OF HIGH PROFILE MARINE MAMMAL SPECIES**
09:05	Ball R	NUTRITIONAL CONCERNS OF REHABILITATED AND LONG TERM CAPTIVE FLORIDA MANATEES *(TRICHECHUS MANATUS LATIROSTRIS)* WITH REFERENCE TO HEALTHY WILD POPULATIONS.
09:19	Clayton L	PREPARING A POPULATION OF BOTTLENOSE DOLPHINS *(TURSIOPS TRUNCATUS)* TO MOVE TO A SANCTUARY SETTING
09:33	Lakemeyer J	PATHOLOGICAL FINDINGS IN NORTH SEA AND BALTIC GREY SEAL AND HARBOUR SEAL INTESTINES ASSOCIATED WITH ACANTHOCEPHALAN INFECTIONS
09:47	Walsh M	MANAGEMENT AND HUSBANDRY CONSIDERATIONS FOR STRANDED CETACEANS
10:01		**Coffee break**
Session chairs	**Niphuis H Malmsten J**	**Emerging infectious diseases**
10:31	Delnatte P	WILDLIFE EMERGING INFECTIOUS DISEASES: RISKS FOR A SEMI-URBAN ZOO, IMPORTANCE OF SURVEILLANCE PROGRAM, AND OPPORTUNITIES FOR RESEARCH
10:45	Himmel T	IDENTIFICATION OF AVIAN HAEMOSPORIDIAN PARASITES IN TISSUE SAMPLES BY CHROMOGENIC IN SITU HYBRIDIZATION
10:59	Knauf-Witzens T	REOCCURRENCE OF ANGIOSTRONGYLUS DUJARDINI IN CALLITRICHIDAE AFTER A CHANGE IN THERAPEUTIC MANAGEMENT – EPIDEMIOLOGY, DIAGNOSTIC METHODS AND A NEW PROPHYLACTIC APPROACH
11:13	Pouillevet H	CLINICAL PRESENTATION OF PROVENTRICULAR NEMATODIASIS DUE TO SYNHIMANTUS NASUTA IN RAINBOW LORIKEETS *(TRICHOGLOSSUS HAEMATODUS)*
11:27	Rousselet E	ANTIBODY RESPONSE TO EPSILON TOXIN OF CLOSTRIDIUM PERFRINGENS IN CAPTIVE ADULT SPRINGBOK *(ANTIDORCAS MARSUPIALIS)*, IMPALA *(AEPYCEROS MELAMPUS)*, ALPACA *(VICUGNA PACOS)* AND BENNETT'S WALLABY (*MACROPUS RUFOGRISEUS)* OVER A YEAR
11:41	Schilling AK	IDENTIFYING LEPROSY IN EURASIAN RED SQUIRRELS *(SCIURUS VULGARIS)*: LESSONS LEARNED IN TWO BRITISH POPULATIONS
11:55	van Zijll Langhout M	CASE REPORT: DIAGNOSTICS AND TREATMENT OF EEHV-1B IN A 2-YEAR-OLD ASIAN ELEPHANT *(ELEPHAS MAXIMUS)* CALF AT ARTIS AMSTERDAM ROYAL ZOO
12:05		**Awards and closing ceremony**
12:45 – 14:00		**EAZWV general assembly**
14:00		**Lunch**
14:00 – 18:30		**Zoo visit**
18:00		**Bird Show "Wings" - Group photo**
19:30 - 24:00		**Conference banquet** (Main hall, Vildmarkshotellet)

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The Joint Leibniz-IZW/EAZWV/ECZM Zoo and Wildlife Health Conference 2019 is organised by the Leibniz Institute for Zoo and Wildlife Research (Leibniz-IZW, Berlin, Germany), the European Association of Zoo and Wildlife Veterinarians (EAZWV, Schaffhausen, Switzerland), the European College of Zoological Medicine (ECZM, Utrecht, The Netherlands), and Destination Kolmården (Kolmården, Sweden).

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