

# 6th International Deer Biology Congress

August 7 - 11 2006  
Prague, Czech Republic

## Programme



Czech University  
of Agriculture  
Suchdol

(Map of the Campus  
page 3 of the cover)



"Pension JAS"  
(5 min walk  
from the campus)

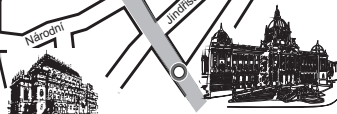
Bus stop  
"Zemědělská univerzita"  
147, 107



# Praha

Bus to the  
Airport

Airport Ruzyně



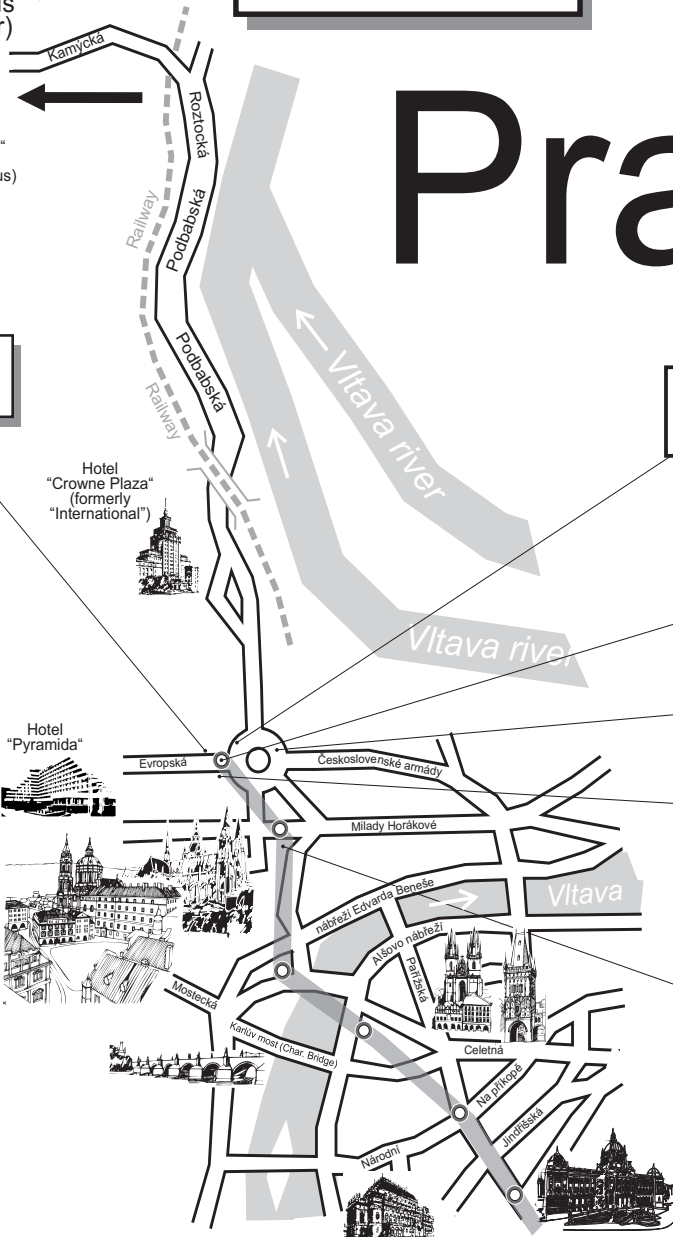
Bus to Suchdol  
147, 107

Dejvická  
("Metro")

Vítězné náměstí

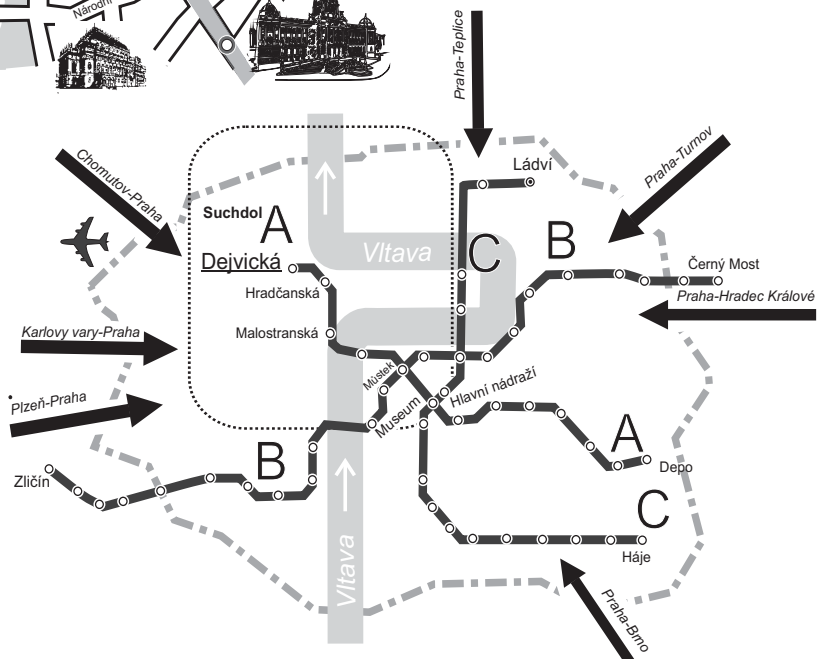
Bus from the  
Airport

Underground  
("Metro")  
Line A

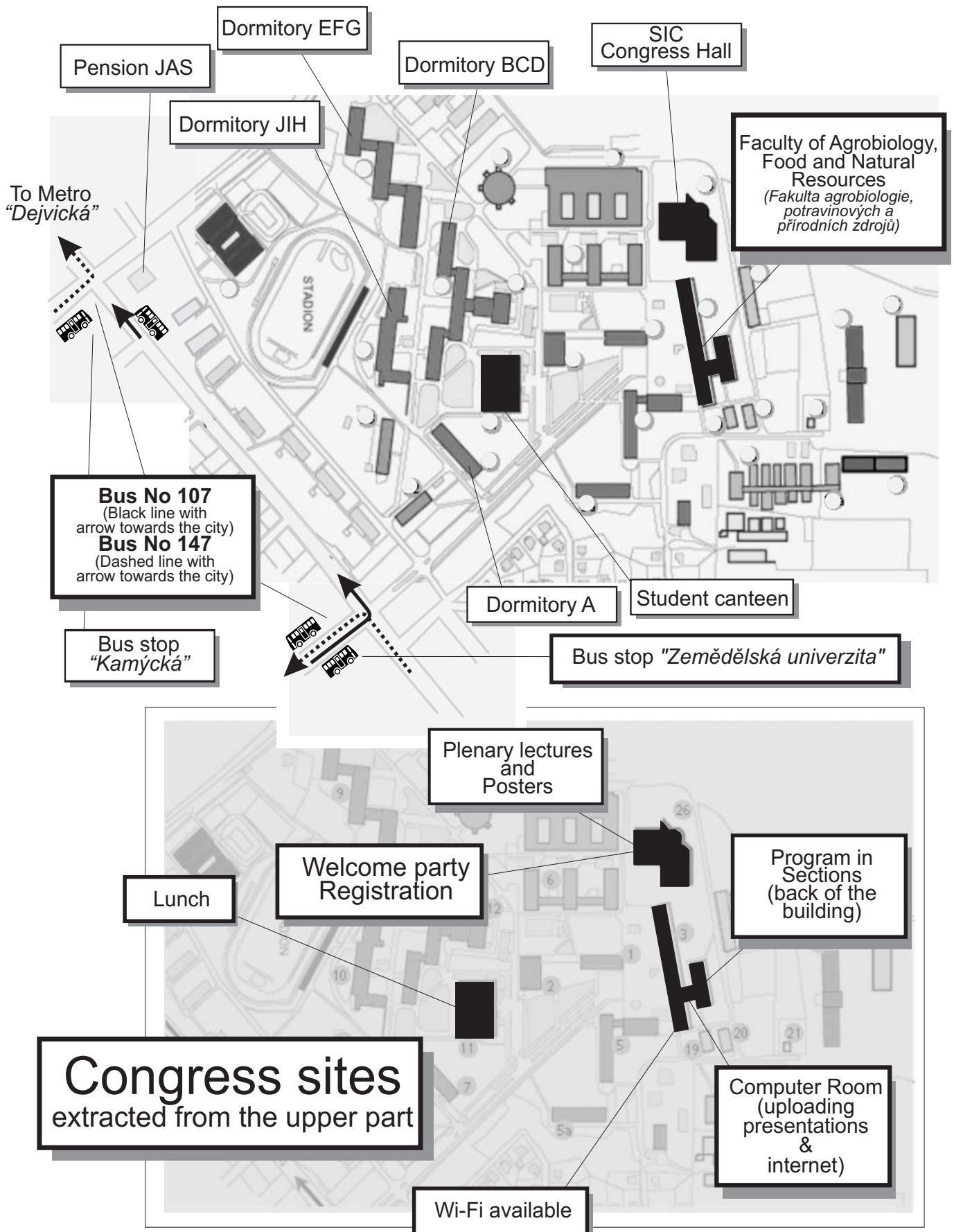


City traffic information  
<http://www.dp-praha.cz/idos/>  
For target station type  
"Zemedelska univerzita"

Underground  
("Metro")  
City System



# Campus of the Czech University of Agriculture (Česká zemědělská univerzita)



The 6th International Deer Biology Congress  
Prague, Czech Republic  
7-11 August 2006

**Local Organizing Committee:**

Luděk Bartoš (Chairman), Pavel Šustr (www pages), Radim Kotrba, Jitka Bartošová-Víchová, Radka Šárová (Excursions and Post-Congress tours), Jan Pluháček, Jorga Drábková, José L. A. Panamá, John Fletcher (FEDFA) + unlimited number of other helpers

**Scientific Steering Committee:**

Jo Anne Smith-Flueck (Chairperson; Argentina) Geoff Asher (New Zealand), George Bubenik (Canada), Norma Chapman (UK), Matthew Cronin (USA), John Fletcher (UK), Susana González (Uruguay), Jerry Haigh (Canada), Horst Kierdorf (Germany), Afifullah Khan (India), Karl Miller (USA), László Sugár (Hungary), Jimmy Suttie (New Zealand), Nicholas Tyler (Norway)

**Congress Secretary:**

Martin Ledvinka, Zuzana Štorchová, Marie Stehlíková, Michaela Kaplanová, Petra Holíková, Jiří Janiga, Jaroslava Janků  
Unico Agric, Czech University of Agriculture Prague  
Kamýcká 129  
165 21 Praha 6 – Suchdol, Czech Republic

**Congress Volunteers:**

Markéta Antonínová, Nad'a AlHakimová, Pavla Hejmanová, Giovanni Ghersina, Karolína Kolářková, Renáta Kolovratová, Kristýna Neuhauserová, Kateřina Tomášová, Jana Holečková, Eva Jozífková, José L. A. Panamá

**Sponsors:**

Forests of the Czech Republic, state enterprise  
Ministry of Agriculture  
Toma Track  
Czech Airlines - the official carrier  
Czech University of Agriculture in Prague

**Exhibitors**

Lotek Wireless Inc.  
Noldus Information Technology  
Sirtrack LTD  
TVP Positioning AB  
VECTRONIC Aerospace GmbH  
Nordic council for reindeer husbandry research (NOR)- non- profit organisation



**MINISTERSTVO ZEMĚDĚLSTVÍ**  
Těšnov 17, 117 05 Praha 1  
Tel: 221 811 111  
Fax: 224 810 478



Czech University of Agriculture in Prague

Sounds

Fallow deer groaning, Sika deer „roar“

Bedřich Smetana: Vltava (Moldau) of the symphony My Country

ISBN 80-86454-73-8

### **Registration and Welcome Party**

The registration for the Congress **begins on Sunday, 6th August 2006, at 16:00 in the SIC Congress Hall** (for location see the 3rd page of the cover) and will continue throughout the evening. The Welcome party will be held in the same place - **the SIC Congress Hall, starting at 19:00.**

The members of the Congress Secretariat will be present at the registration desk during all official programme of the Congress. We will be pleased to answer your questions and solve your eventual problems with accommodation or additional programme of the Congress.

### **Congress fee**

The congress fee includes admission to the plenary lectures, scientific presentations, workshops, poster sessions, Congress programme and book of Abstracts, refreshments during the Congress and the Welcome Party.

### **Delegate identification**

Admission to the plenary lectures and the scientific presentations will be permitted only to those wearing the official Congress badge given at the registration desk.

### **Daily Program and Session Halls**

The plenary lectures will take place in the **SIC Congress hall**. The parallel sessions will be run in three auditoria (Rooms AI., AII., and AIII.) of the **Faculty of Agrobiolology, Food and Natural Resources**, ground floor. Posters will be on continuous display in **SIC Congress hall** in the Upper Foyer.

### **Oral Presentations**

We have organized a central timing system for all the three parallel sessions. The total time for a presentation is 20 minutes (followed by 3 minutes for changing rooms). After 13 minutes the first sound will indicate 2 minutes left, for both the speaker and for the chairman. After 15 minutes another audible signal indicates the end of the presentation. Five more minutes are allowed for further questions and discussion. When music starts, the time for changing rooms comes. Facilities for computer projection (PC only, Windows XP Professional, PowerPoint 2003), a 35-mm slide projector (circular carousels only) and an overhead projector will be available. Connecting your laptop to the dataprojector will be also possible.

### **Uploading the PowerPoint presentations**

From any PC on the net (see **Computers, E-mail and Internet**, below) log in to the net:

User name/login name (“*Uživatelské jméno*”) “**.idbc.af.czu.cz**”

(please do not overlook the dot at the beginning of the name)

Password (“*Zadejte heslo*”) “**deer**”.

An English speaking **Total Commander** will appear. Select **P:** and the directory with your session (directories labelled as the auditoria - i.e. Rooms AI., AII., AIII.). Find your section, rename and upload your file. The file should contain order within the section and name of the first author (e.g., “**1 Smith.ppt**”) You will not be allowed to erase the file after uploading.

If you made any mistake, upload the file under another name (e.g., “**1 Smith 2.ppt**”) or ask for assistance.

You can upload your files also from the internet <http://prague.inczechia.cz/upload.php>.

It may look complicated, but it is not! Just try it. It's fun! Otherwise we will help you. To facilitate the technical procedures, we do encourage authors who have presentations on Monday to send it to [idbc@af.czu.cz](mailto:idbc@af.czu.cz) before the conference.

### **Poster Presentations**

Every poster is on continuous display (**SIC Congress hall**, the Upper Foyer) for the duration of the congress, poster sessions refer to the time when authors should stay with their posters. The number of the poster corresponds to the number in the Proceedings. Assistance and equipment will be available; the poster size should not exceed 98 x 140 cm (ISO DIN A0, being 140 cm high).

### **Workshops**

Three workshops (so far) will be organized according to Programme schedule:

- Deer managements, coordinator David Hewitt and Karl Miller, U.S.A. ([KMILLER@smokey.forestry.uga.edu](mailto:KMILLER@smokey.forestry.uga.edu));
- Telemetry and analyses of GPS data, coordinator Stefano Focardi, Italy ([stefano.focardi@infs.it](mailto:stefano.focardi@infs.it))
- Huemul conservation working group meeting, coordinator Jo Anne Smith-Flueck, Argentina ([joannesmith@baritel.com.ar](mailto:joannesmith@baritel.com.ar)).

### **TONY BUBENIK MEMORIAL AWARD**

6th Tony Bubenik Memorial Award

The recipient of the 6th Tony Bubenik Memorial Award will be selected from candidates (younger than 35 yrs) presenting a lecture or a poster at the 6th International Deer Biology Congress to be held in August 2006 in Prague, Czech Republic. The award, established by Tony's family and friends consists of a memorial plaque, a monetary award of 300 US \$ and a signed print of Tony's painting of the mountain goat, called: "High in the sky". The criteria for selection are: 1) The originality of the research idea and the degree of innovation in the techniques used, 2) the excellence in evaluation of data obtained, 3) the clarity of presentation, and 4) the knowledgeable discussion of the results with the public. The winner will be selected by the panel of international scientists named at the meeting. The candidates for the award should indicate on their abstract that they want to be considered for the competition. **Please check at registration if you are marked as a candidate.**

*George A. Bubenik, Chairman of the Selection Committee.*

### **Computers, E-mail and Internet**

Computer facilities with internet access are available at the **SIC Congress Hall**, ground floor, at the **Faculty of Agrobiolgy, Food and Natural Resources**, ground floor (just opposite to the auditoria – with a permanent assistance available) and No. 22 (in the from part of the building). Computers in the room No. 22 will be equipped with English speaking software. Good for checking the presentation! During the congress **Wi- Fi** connection will be available free of charge within the building of the Faculty. If asked for “WIFI PARAMETRES“, type: SSID: idbc, WEP key: abcdef1234.

## **Congress board**

Announcements of the programme changes and additions will be communicated at the entrance of each lecture hall and at the Registration Desk.

## **Emergency call**

In case of emergency and help contact a Congress secretary (phone + 420 774 241 303). Outside of the Congress the emergency number is 112.

## **Usefull Telephone Numbers**

Congress Secretariat + 420 774 241 303 , + 420 224 383 430

Airport Prague-Ruzyně - information + 420 220 113 314, + 420 220 113 321

Train - information + 420 840 112 113, search for connection [www.idos.cz](http://www.idos.cz)

Main Bus Station – information + 420 900 144 444, search for connection [www.idos.cz](http://www.idos.cz)

AAA Taxi + 420 222 333 222, + 420 140 14

## **Meals**

Coffee/tea with little refreshment and water during the coffee breaks will be available for the registered participants within the Faculty of Agrobiolgy, Food and Natural Resources in front of the auditoria AI., AII., AIII. The coffee/tea and water will be available during scientific programme all the morning. For lunch tickets and/or information about dinning around please contact the Registration Desk.

## **Shuttle bus**

Shuttle bus from and to the hotels Krystal\*\*\* and Pyramida\*\*\*\* will operate each day of the Congress except Wednesday, 9 August 2006.

See the shuttlebus schedule in the reception of your hotel.

<b>Date</b>	<b>Hotel Pyramida****</b>	<b>Hotel Krystal ***</b>	<b>From CUA, Student Canteen</b>
<i>Monday 7th August</i>	<b>7:15</b>	<b>7:35</b>	<b>Back to the hotels after the end of the scientific programme</b>
<i>Tuesday 8th August</i>	<b>8:00</b>	<b>8:20</b>	
<i>Thursday, 10th August</i>	<b>8:00</b>	<b>8:20</b>	
<i>Friday 11th August</i>	<b>7:45</b>	<b>8:05</b>	

## **Social Programme**

### **Welcome party**

The Welcome party will begin on Sunday, 6th August 2006 in the SIC Congress Hall, starting at 19:00.



## **Farewell party**

The farewell party will be held in Břevnov Monastery. This cloister was founded by St. Vojtěch and Duke Boleslav II in 993, and it is the oldest monastery in the Czech lands. The medieval character of this Benedict abbey was entirely suppressed by later modifications made between the years 1709 and 1720 under the direction of experienced architects of the era - Kryštof and Kilián Ignác Dienzenhoffer. The interiors are formed by well preserved baroque and classicist halls. We invite you to fully relish the atmosphere and listen to a concert of classical music in the Teresian Hall.

**Date: Thursday, August 10th 2006**

**Departure: 19:15 from Student Canteen**

**19:30 departure from Hotel Pyramida\*\*\*\***

**19:30 from Hotel Krystal\*\*\***

The price is 55 € or 1 650 CZK.

## **Lunches**

Congress lunches will be **served in Student Canteen** in compliance with the Congress programme. The tickets for the Congress lunches are available at the registration desk. The price is 7 € or 210 CZK per lunch.

## **Arrival to Prague**

### **GPS location**

GPS location of the Czech University of Agriculture campus: N50 07.813 E14 22.389.

### **By plane**

The Prague Airport is located approximately 10 km away from the city centre and 5 km from Czech University of Agriculture. Prague has international connections with all the main cities of Europe and other continents.

### **How to go from the airport to the place of the venue Czech University of Agriculture and to the accomodation:**

The Prague Airport has two terminals, Terminal SEVER 1 and Terminal SEVER 2. In front of both terminals there is a bus stop - bus No. 119.

This line serves as a connection between airport and the citycentre. Please don't forget to buy a busticket for 20 CZK. Yellow ticketmachine are located at the airport and also on the stations. The busdriver can sell you the ticket as well. Go with the No. 119 to the last station "Dejvická".

Walk through the subway to a bustop of buses No. 107 and 147. Follow the signs showing the direction "Suchdol". Take bus No. 107 or 147 and get off at "Zemědělská univerzita". For those having accomodation at Dormitory and Pension JAS or going straight to Reception Desk. The huge board with the Congress logo will welcome you. The whole journey takes approximately 1 hour (see plan of Campus of the Czech University of Agriculture at last page of the cover).

From station "Dejvická" to the hotel Krystal take tram No. 20 or tram No. 26 to the tram stop "Nad Džbánem". To the hotel Pyramida from station „Dejvická“ take Bus No. 217 to the station "Pod Královkou" or No. 143 to the station "Malovanka", approx. 100 m from hotel or trams No. 22 or No. 23 to the tram stop "Malovanka".

The taxi to the Hotel Krystal, Pyramida and Dormitory cost around 500 CZK.

## **Transport in Prague**

The organisers provide no transport service from the airport or Prague railway station. Participants are recommended to use the public transport in Prague, which offers a quality service.

The tickets for city public transport are easily to get in the ticket automates in the vestibule of metro or almost in each tobacconist in value of 14 CZK (valid for 15 minutes) or 20 CZK (valid for 75 minutes in case of changing the bus, metro lines). For validity the tickets must be endorsed at the entrance to metro and inside bus, tram immediately after getting on.

The public transport to the Czech Agriculture University is by bus lines n. 107 or 147 from the “metro” (i.e., underground/subway) station “Dejvická” on line A to the station “Zemědělská univerzita”. The easiest way to get there from the airport is by bus n. 119 to the final station (Dejvická) and there change to bus lines n. 107 or 147. Between 5 a.m. and 10 p.m. the buses leave from the airport building every 7 or 10 min. (a single ticket costs 20 CZK and it is valid for 75 minutes). Ticket machines are located on stations and by the tracks.

Information in English about public transport in Prague (including detailed schedules of the metro, tram and bus connections and an automatic search for connections) you can find on the web pages of “Dopravní podnik hl. m. Prahy” (<http://www.dp-praha.cz/idos/>).

### **Underground (Subway)**

The Prague Metro network consists of 3 lines designated by letters and differentiated in colour: A-green colour: „Skalka” station - „Dejvická” station, B-yellow colour: „Černý most” station - „Zličín” station, C-red colour: „Ládví” station - „Háje” station, with transfers possible at „Muzeum” station (lines A and C), „Můstek” station (lines A and B), „Florenc” station (lines B and C). Metro operates daily from 5 a.m. to 12 p.m. The time interval between train departures is approximately 2 minutes during the workday rush hours and 4 to 10 minutes during off-peak hours. **The Metro last train departs at about midnight.**

### **Trams (Streetcars)**

Daytime operation is from 4:30 a.m. to 12 p.m. Overnight operation is from 00:30 a.m. to 4:30 a.m. and is provided by trams number 51 to 58 with the intervals of 30 minutes. The central transfer location for overnight lines is „Lazarská” stop. Tram schedules are located at individual stops.

### **Buses**

The daytime and overnight operation of buses is similar to the tram operation. Buses number 501 to 512 provide overnight service. Bus schedules are located at individual stops.

### **Taxi**

For using taxi, participants are recommended to require a receipt from the taxi driver before the drive.

## **General informations**

### **Electricity supply**

In the Czech Republic, electricity is supplied at 230 V, 50 Hz. The EU standard 2 - pin connecting plug is different from that used in some other countries.

### **Disclaimer**

The Organizing Committee and the Congress Secretary accept no liability for injuries or losses of whatever nature incurred by participants and/or accompanying persons, not for loss or damage to their luggage and/or personal belongings. We strongly encourage all the participants to take out the travel insurance.

### **Weather**

In Prague is mild continental climate through all year. We can expect summer temperature rises to the 30 °C during days and drops to 15 °C during nights. Be prepared for scattered thunderstorms which are typical for this time of year. The post congress tours are located to mountain areas where weather is unpredictable and temperatures are approximately 10 °C lower than in Prague.

### **Parking**

Free parking is available in the Campus of the Czech University of Agriculture. Parking in centre of Prague is problematic and expensive and we recommend to use public transport.

### **Smoking**

Smoking is not permitted inside the University facilities, but outside are places reserved for smokers. According to the Czech law is not permitted to smoke at the bus, tram and metro stations.

### **Thefts**

In Prague, as in any other large City, beware of pickpockets and do not leave your valuables and belongings unattended. As a crossroad of nations, Prague has attracted expert pickpockets from many other countries. They are real experts! Otherwise, Prague is a quite safe city with low crime incidence.

### **Additional programme**

The offer of excursions, programme for accompanying persons and Post Congress tours was, unfortunately, restricted due to low interest. Please, see the offer listed below or check the Congress board, whether your trip is organized or not. In case you are interested to participate in any trip, contact the registration desk.

<b>Congress excursion</b>	<b>Date</b>	<b>Price per person</b>
<b>Prague Castle</b>	<b>9<sup>th</sup> August</b>	<b>22 € or 660 CZK</b>
<b>Golden City of Prague</b>	<b>9<sup>th</sup> August</b>	<b>32 € or 960 CZK</b>
<b>Kutná Hora, Žleby</b>	<b>9<sup>th</sup> August</b>	<b>50 € or 1 500 CZK</b>

### **Prague Castle**

Prague Castle is the historical seat of Czech rulers and present residence of the president. Among many architectural jewels of the Castle complex is the magnificent gothic church – St. Vitus cathedral, founded in 1344. Golden Lane, a row of tiny houses built in the Castle fortification, got its name after the alchemists, who, according to a legend, tried to make gold there. You will see also Royal Gardens, the monuments of Lesser Town and at the end, cross Charles Bridge to Old Town. Prague is listed in Unesco World Natural and Cultural Heritage Register.

**Departure:**           **9:00 a.m. from Student Canteen**  
                              **9:20 a.m. from Hotel Krystal\*\*\***  
                              **9:30 a.m. from Hotel Pyramida\*\*\*\***

**End of the excursion: approximately 14:00. The return to hotels is individual. Every participant will get a public transport ticket.**

**Cost per person: 22 € or 660 CZK – transport and the tour guided in English is included.**

### **Golden City of Prague**

The excursion Golden City of Prague will take through the historical part of the city, be guided in English and includes a lunch in the downtown. You will see Old Town Square - the heart of Old Town, St. Nicolas Church and famous Charles Bridge, full of craftsmen and musicians. On the other side of Vltava in Lesser Town is The Wallenstein Garden, an early baroque park and place to relax from the rush around. You will also walk the Royal Road, connecting the Prague Towns with the Castle. Prague is under the protection of UNESCO.

**Departure:**           **9:00 a.m. from Student Canteen**  
                              **9:20 a.m. from Hotel Krystal\*\*\***  
                              **9:30 a.m. from Hotel Pyramida\*\*\*\***

**End of the excursion: approximately 14:00. The return to hotels is individual. Every participant will get a public transport ticket.**

**Cost per person: 32 € or 960 CZK - transport, English guided tour and lunch in the downtown is included.**

### **Kutná Hora, Žleby**

At first, you will visit a game park near a small town Žleby. The park is well known for its herd of white red deer. You will have a chance to see the very inside of the park during a guided tour. The park also provides a shelter for handicapped animals and consequently offers a wide display of Czech fauna. As a bonus, you can watch a show with trained raptors. Before the bus will take you to Kutná Hora, a lunch will be served in local restaurant. During a sightseeing tour in Kutná Hora, guided by a Kutná Hora native, you will visit the curiously shaped gothic cathedral dedicated to St. Barbara.

**Departure:**           **8:00 a.m. from Student Canteen**  
                              **8:20 a.m. from Hotel Krystal\*\*\***  
                              **8:30 a.m. from Hotel Pyramida\*\*\*\***

**End of the excursion: approximately 17:00 p.m. Buses will take you to the Congress hotels.**

**Cost per person: 50 € or 1 500 CZK - transport, English guided tour and lunch is included.**

### **Program for accompanying persons**

We regret to announce the cancelation of all offered trips for very poor interest. In case you have a reservation for any of the mentioned excursions (Karlovy Vary, Karlštejn, Kladruba, Jewish Prague), please, contact the registration desk.

### **Postcongress Tours 12th – 13th August 2006**

The Congress organizers invite you for a visit in the most interesting green parts of the Czech Republic. All tours will be held during the weekend, starting on Saturday the 12th and finishing on Sunday 13th.

The Tours include transport, accommodation and boarding. Those accommodated in Hotel Krystal\*\*\* and Hotel Pyramida\*\*\*\* should check out from the Hotel. The luggage can be delivered to the Post congress bus.

The Congress organizers reserve their right to make changes in the content of any tour.

<b>Postcongress Tour</b>	<b>Date</b>	<b>Price per person</b>
National Park Šumava	<b>12<sup>th</sup> - 13<sup>th</sup> August</b>	100 € or 3000 CZK
National Park Krkonoše	<b>12<sup>th</sup> - 13<sup>th</sup> August</b>	100 € or 3000 CZK

### **National Park Šumava**

The National Park Šumava (NP) is situated in the south part of Czech Republic; along the state border with Federal Republic of Germany and Austria. With its area of 69.000 hectares, NP Šumava is the largest park in our country. Together with the neighbouring Bavarian Forest NP (in Germany) it forms the largest forest complex in central Europe.

Even so the park is located in densely inhabited central Europe, has a relatively high wildlife conservation and rich water resources. For this reason, NP Šumava is often called „Green Roof of Europe“ and its international significance is ever-increasing.

In the NP Šumava are found most of the highly valuable natural phenomena of Šumava Mountains, which require strict protection. Among others are worth mentioning glacial lakes, mountain and valley undulating grounds or remnants of primeval forest.

**1st day – departure at 8:00 a.m. from the Student Canteen, at 8:30 from Hotel Krystal\*\*\* and at 9:00 from Hotel Pyramida\*\*\*\*; after accommodation and lunch we will visit the winter deer enclosure, talk about the telemetry and about the projects running in the NP Šumava; dinner in the hotel.**

**2nd day – We will visit the central part of the NP Šumava – the area of the dead bark-beetle forest (Březník – Lužný). After lunch we will leave for Prague. Arrival to Prague in the evening hours.**

**Equipment:** Even though the tour includes only a 10 kilometers hike please bring sturdy shoes and a raincoat or an anorak just in case.

**Notice:** There can be some programme changes due to the bad weather.

### **National Park Krkonoše**

The National Park Krkonoše (NP) is a mountain national park located in the north part of the Czech Republic. The Giant Mts. (Krkonoše in Czech, Karkonosze in Polish) are the topmost range of the Sudetes, a chain of middle mountains along the border between the Czech Republic and Poland. In spite of their moderate altitude (the highest peak being Mt. Sněžka 1603 m a. s. l.), the Giant Mts. display two regions with a continuous alpine timberline, large arctic-alpine ecosystems, numerous avalanche tracks, and occasional landslides. On the summit plateaus, average annual temperatures range between 1° and 2°C, and average annual precipitation reaches 1450 mm. Continuous snow cover persists from November to the beginning of May, with a maximum snow depth observed in March or at the beginning of April. Mean snowpack thickness reaches values of about 1.8 m. Transport, accomodation and boarding will be provided.

**1st day - departure at 8:00 a.m. from Student Canteen, at 8:30 a.m. from Hotel Krystal\*\*\* and at 9:00 a.m. from Hotel Pyramida\*\*\*\*;** arrival in Krkonoše, lunch, short introduction: basic facts about the Krkonoše NP. Excursion into a winter enclosure will follow and then a visit in the traditional small mountain dairy farm with testing of milk products; dinner in the hotel.

**2nd day - Trip on the Sněžka Mountain (1602 m) – the highest mountain of the Czech Republic.** Vegetation zonation in relation to altitude, as well as many arctic and alpine phenomena will be visible there. **Arrival at approximately 17:00.**

Alternative program in the case of unfavourable weather: Trip into Sklenářovice Mountain valley where ruins of abandoned village, damages caused by deer browsing, many types of mountain meadows and experiment with alternative grassland management will be visible.

**Equipment:** This trip takes you up a gradient of 1 000 m and demands hiking boots, appropriate clothes and small backpack.

**Notice:** There can be some programme changes due to the bad weather.

Time table:

***Sunday 6<sup>th</sup> August***

Registration (SIC) 16:00 onwards

Welcome party (SIC) 19:00

***Monday 7<sup>th</sup> August***

Scientific programme 8:00 to 17:30  
(SIC plenary lectures, Faculty of Agrobiolgy, Food and Natural Resources programme in sections)

***Tuesday 8<sup>th</sup> August***

Scientific programme 8:45 to 17:30  
(SIC plenary lectures, Faculty of Agrobiolgy, Food and Natural Resources programme in sections)

***Wednesday 9<sup>th</sup> August***

Excursions

***Thursday 10<sup>th</sup> August***

Scientific programme 8:45 to 18:00  
(SIC plenary lectures, Faculty of Agrobiolgy, Food and Natural Resources programme in sections)

Farewell Party 20:00  
Břevnov Monastery (departures see page 6)

***Friday 11<sup>th</sup> August***

Scientific programme 8:30 to 18:00  
(SIC plenary lectures, Faculty of Agrobiolgy, Food and Natural Resources programme in sections)

***Saturday 12<sup>th</sup> August and Sunday 13<sup>th</sup> August***

Post -congress tours

8:00 - 8:45 *opening and organizational items*

8:45 *plenary lecture*  
chair: J. A. Smith-Flueck



**Geist V.**

***Priorities in Cervid conservation: Why science, zoogeography and history do matter.*** 1

9:45 - 10:05 *coffee break*

**A I. DEER MANAGEMENT**

chairs: B. Åhman, G. Dryden

- 10:05 ***Ferreira A. J. and Silva C.*** 8  
Three years of roe deer (*Capreolus capreolus*) radio-tracking in a Mediterranean environment.
- 10:28 ***Szemethy L., Biró Zs., Katona K., Mátrai K., Orosz Sz. and Bleier N.*** 9  
Seasonal home range shift of red deer in a forest-agriculture area, Hungary.
- 10:51 ***Beszterda P.*** 11  
Population size and demographic variables of red deer in Bydgoszcz National Forest, central Poland.
- 11:14 ***Bobek B., Mamok T., Mikoś J., Rembacz W., Standio A., and Wasilewski R.*** 12  
Management of red deer in Poland: field data versus official hunting statistic.

11:34 - 13:00 *lunch*

13:00 *plenary lecture*  
chair: L. Sugár

**Woodbury M. R. and Campbell J. R.**

***Emerging disease in wild and captive Cervids.***

3

**A I. DEER MANAGEMENT**

chairs: B. Åhman, G. Dryden

- 14:05 ***MacMillan, D. C.*** 13  
Over-abundance of deer: Is shooting the answer?
- 14:28 ***Olofsson A., Åhman B. and Danell Ö.*** 14  
Slaughter records as a body condition indicator or reindeer - How can records be improved?
- 14:51 ***Haigh J. C. and Keay M. G.*** 15  
The management of reindeer in the Mongolian Tsaatan culture.



Monday 7<sup>th</sup> August 2006  
15:11-17:37



15:11 - 15:45 *coffee break*

*A I.* **DEER MANAGEMENT**

chairs: B. Åhman, G. Dryden

15:45	<b><i>Åhman B. and Danell Ö.</i></b>	16
	Can supplementary feeding improve productivity in reindeer husbandry?	
16:08	<b><i>Åhman B. and Skuterud L.</i></b>	17
	Twenty years of impact of the Chernobyl accident on reindeer management and meat production in Sweden and Norway.	
16:31	<b><i>Davies M. H. and Chapple D. G.</i></b>	18
	Economic sustainability of farmed venison production in the UK.	
16:54	<b><i>Malins M. I.</i></b>	19
	Public perception of deer management and control strategies.	



9:45 - 10:05 *coffee break*

**A II. DISEASES OF DEER**

chairs: J. Haigh, P. R. Wilson

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| 10:05 | <b>Wilson P. R.</b>   | 48 |
|       | Recent advances in health and welfare of farmed deer in New Zealand.  |    |
| 10:28 | <b>Wilson P. R.</b>   | 49 |
|       | Health and production challenges facing intensive deer farming industries.                                  |    |
| 10:51 | <b>Tedford C.</b>   | 50 |
|       | Chronic wasting disease in North America - A deer farmer's perspective.                                     |    |
| 11:14 | <b>Maxwell C.</b>   | 51 |
|       | Chronic wasting disease in Canadian wildlife: An expert opinion on the epidemiology and risks to wild deer. |    |

11:34 - 13:00 *lunch*

**A II. DISEASES OF DEER**

chairs: J. Haigh, P. R. Wilson

- |       |  |    |
|-------|--|----|
| 14:05 | <b>Mackintosh C. G., Griffin J. F. T. and de Lisle G. W.</b>                             | 53 |
|       | Johne's disease in farmed deer in New Zealand.   |    |
| 14:28 | <b>Glossop J. C., Wilson P. R., Heuer C. and Nugent G.</b>                               | 52 |
|       | Epidemiological investigations of Johne's disease in deer.                               |    |
| 14:51 | <b>Mackintosh C. G., Thompson J. F. T, Griffin J. F. T. and de Lisle G. W.</b>           | 54 |
|       | Insights into the pathogenesis of Johne's disease in red deer ( <i>Cervus elaphus</i> ). |    |

Monday 7<sup>th</sup> August 2006

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15:11 - 15:45 *coffee break*

**A II. DISEASES OF DEER**

chairs: J. Haigh, P. R. Wilson

- 15:45 **Ayanegui-Alcérreca M. A., Wilson P. R., Heuer C., Collins-Emerson J. M., Mackintosh C. G., Midwinter A. C. and Castillo-Alcala F.** 56  
An international review of Leptospirosis in wild and farmed deer.
- 16:08 **Ayanegui-Alcérreca M. A., Wilson P. R., Mackintosh C. G., Collins-Emerson J. M., Heuer C., Midwinter A. C., and Castillo-Alcala F.** 57  
Epidemiology of Leptospiral infections with Serovars Hardjobovis, Pomona and Copenhageni in farmed red deer (*Cervus elaphus*) in New Zealand.
- 16:31 **Castillo-Alcala F., Wilson P. R., Pomroy W. E. and Hoskin S. O.** 58  
Anthelmintic use and internal parasite control in farmed deer in New Zealand.
- 16:54 **Sugár L., Kovács Sz. and Kovács A.** 59  
Subdural occurrence of *Elaphostrongylus cervi* and *Setaria cervi* in red deer of West Hungary.
- 17:17 **S. O. Hoskin, W. E. Pomroy, P. R. Wilson, M. Ondris, and P. Mason** 55  
The efficacy of oral and pour-on ivermectin and pour-on moxidectin in farmed red deer.



9:45 - 10:05 *coffee break*

**A III. REPRODUCTION**

chairs: Z. Gizejewski, R. W. DeYoung

- 10:05 **Gizejewski Z., Szafranska B., Steplewski Z., Panasiewicz G. and Koprowski H.** 100  
Gossypol-based contraception in male deer (*Cervus elaphus*).
- 10:28 **Frey R., Gebler A., Fritsch G., Nygrén K. and Weissengruber G. E.** 101  
The hoarse vocalization and the inflatable laryngeal air sac of reindeer (*Rangifer tarandus*).
- 10:51 **DeYoung R. W., Gee K. L., Demarais S., Honeycutt R. L. and Gonzales R. A.** 102  
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- 11:14 **Harrison W. M., Moore I. A., Draisma M. and Moore G. I.** 103  
Observations on the reproductive behaviour of sambar deer (*Cervus unicolor unicolor*) in a bush enclosure in Victoria, Australia.

11:34 - 13:00 *lunch*

**A III. REPRODUCTION**

chairs: Z. Gizejewski, R. W. DeYoung

- 14:05 **Imperio S., Focardi S., Ronchi F. and De Marinis A.** 104  
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- 14:28 **Hewitt D. G. and Monaco E. L.** 105  
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- 14:51 **Muller L. I., Adams K. A., Conner M. C. and Bowman J. L.** 106  
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Monday 7<sup>th</sup> August 2006

15:11-17:37



15:11 - 15:45 *coffee break*

*A III.*    **BEHAVIOUR AND WELFARE**

chairs: J. Carranza, S. Mattiello

- 15:45 ***Fischer A. and Hendrichs H.*** 114  
Social competence in Chinese muntjac deer.
- 16:08 ***Ciuti S., Luccarini S. and Apollonio M.*** 115  
The analysis of sexual segregation in fallow deer (*Dama dama*) on different time and space scales.
- 16:31 ***Grignolio S., Bongí P., Ciuti S., Bertolotto E. and Apollonio M.*** 116  
Behavioural modifications of female ungulates during late pregnancy and early lactation: the case of fallow deer *Dama dama*.
- 16:54 ***Bartošová-Víchová J., Bartoš L. and Švecová L.*** 117  
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- 17:17 ***Dušek A. and Bartoš L.*** 118  
The effect of the birth weight on the calf's allosucking success in the red deer (*Cervus elaphus*) supports the compensation hypothesis.

8:45 *plenary lecture*

chair: S. Gonzáles

**McShea W. J.**

***Conservation of tropical deer: What does the future hold?***

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9:45 - 10:05 *coffee break*

10:05 ***Group photo of all participants***

*A I.*     **DEER MANAGEMENT**

chairs: J. Borkowski, W. J. McShea

- 10:28 ***Hoskin S. O., Wilson P. R., Ondris M. and Bunod A.-H.***     21  
Evaluation of forage herbs for farmed red deer: feeding value and trace elements.
- 10:51 ***Katona K., Szemethy L., Mátrai K., Bleier N. and Orosz Sz***     23  
Feeding habits of red deer in Hungarian forested and agricultural areas.
- 11:14 ***Kamler J., Homolka M., Heroldová M., Barančková M. and Prokešová J.***     24  
Detection of needles: tool for evaluation of diet quality in wild ruminants.

11:34 - 13:00 *lunch*

13:00 *plenary lecture*

chair: L. Bartoš

**Bubenik G. A.**

***Seasonal versus non-seasonal reproduction in deer: From the arctic to the tropics.***

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*A I.*     **DEER MANAGEMENT**

chairs: J. Borkowski, W. J. McShea

- 14:05 ***Borkowski J. and Nasiadka P.***     25  
Environmental factors affecting Scots pine debarking by red deer in south-western Poland.
- 14:28 ***Ferreira A. J. and Oliveira A. M.***     26  
New technique for estimation Cervidea hiding cover.
- 14:51 ***Tremblay J.-P., Solberg E., Saether B.-E. and Heim M.***     27  
Calving sites fidelity in free-ranging moose.

15:11 - 15:45 *coffee break*

Tuesday 8<sup>th</sup> August 2006

15:45-18:00



*A I.* **DEER MANAGEMENT**

chairs: J. Borkowski, W. J. McShea

- 15:45 *Bar-David S., Saltz D., Dolev A., Perelberg A. and Dayan T.* 10  
Space use patterns of Persian fallow deer following reintroduction.

*A I.* **CONSERVATION OF FREE RANGING POULATIONS: CONFLICTS OF INTEREST**

chairs: K. Katona, D. Saltz

- 16:08 *Ilyas O.* 172  
Status, distribution and conservation of musk deer (*Moschus chrysogaster*) in Kedarnath Wildlife Sanctuary, Uttranchal Himalayas, India.

- 16:31 *Zidon R., Saltz D. and Motro U.* 173  
Seed Dispersal by the Reintroduced Persian Fallow Deer in the Judean Mountains, Israel.

- 16:54 *Zink R. and Reimoser F.* 174  
Deer management and monitoring of browsing impacts in Austrian national parks.

- 17:17 *Goyal S. P., Mandal A., Singh R. R., Mishra S. and Sharma C. P.* 175  
Wildlife trade in deer species: A need for developing wildlife forensic techniques.

**SIC**

- 18:00 *Workshop* Huemul conservation working group meeting (coordinator: J. A. Smith-Flueck, Argentina)



**A II. DISEASES OF DEER**

chairs: S. O. Hoskin, D. Konjević

- 10:28 **Haigh J. C., Keay M. G., Gerwing V., Erdenbaatar J. and Nansalmaa M.** 60  
Disease problems in Mongolian reindeer.
- 10:51 **Richter H., Richards A. and Kierdorf H.** 61  
Histopathology of fluorotic coronal dentine of roe deer (*Capreolus capreolus*) and red deer (*Cervus elaphus*) teeth.
- 11:14 **Castillo-Alcala F., Wilson P. R. and Grace N. D.** 62  
Mineral composition and requirements for growth of farmed red deer in New Zealand.

11:34 - 13:00 *lunch*

**A II. DISEASES OF DEER**

chairs: S. O. Hoskin, D. Konjević

- 14:05 **Wilson P. R., Castillo-Alcala F. and Grace N. D.** 63  
Recent advances in understanding therapy with Copper Oxide Wire Particles in New Zealand Farmed deer.
- 14:28 **Sugár L., Kovács Sz. and Kovács A.** 64  
Nasopharyngeal bot fly, Oestridae larvae in red deer in Hungary.

**A II. DEER ZOOARCHEOLOGY AND HISTORY**

chair: M. Liouville

- 14:51 **Liouville M., Valensi P. and Psathi E.** 195  
Biometry and palaeoecology of the Red deer (*Cervus elaphus* Linné, 1758) during middle and upper Pleistocene in Western Europe. The example of the Lazaret cave (Alpes-Maritimes; France).

15:11 - 15:45 *coffee break*



Tuesday 8<sup>th</sup> August 2006

15:45-18:00



*A II.*     **FEEDING ECOLOGY**

chairs: M. Ando, M. Heroldová

- 15:45 **Gazzolo C.** 179  
Botanical composition of taruka (*Hippocamelus antisensis*) diet during rainy season in Huascarán National Park, Peru.
- 16:08 **Nuñez A. M.** 180  
Habitat use by two large deer species (*Hippocamelus antisensis* and *Odocoileus virginianus*) and one small deer species (*Mazama bricenii*) in the Apolobamba Integrated Management Natural Area (La Paz-Bolivia).
- 16:31 **Merta D. and Kumór K.** 181  
Impact of deer browsing and other environmental factors upon growth and development of fir saplings (*Abies alba* Mill.) in the Bieszczady Mountains, southern Poland.
- 16:54 **Heroldová M., Homolka M., Kamler J., Ghezzi C., Redaelli W., Andreoli E. and Mattiello S.** 200  
Factors affecting the composition of autumn diet of red deer (*Cervus elaphus*) in Alpine environment.
- 17:17 **Dryden G. M. and Whelan K. J.** 20  
Preferences of red deer for subtropical pasture species.

**SIC**

- 18:00 **Workshop Huemul conservation working group meeting (coordinator: J. A. Smith-Flueck, Argentina)**



**A III. BEHAVIOUR AND WELFARE**

chairs: M. Apollonio, W. Arnold

- 10:28 **Saltz D. and Bar-David S.** 113  
Assessing the performance of a Persian fallow deer population 10 years after reintroduction.
- 10:51 **Bartošová-Víchová J., Bartoš L., Drábková J., Švecová L., Pluháček J., Kotrba R. and Dušek A.** 119  
Do red deer (*Cervus elaphus*) grandmothers nurse their grandchildren?
- 11:14 **Lingle S., Wilson W. F. and Pellis S. M.** 120  
When prey fight back: higher levels of aggressive defence by mule deer than whitetail females lowers vulnerability of mule deer fawns to coyotes early in life.
- 11:34 - 13:00 *lunch*

**A III. BEHAVIOUR AND WELFARE**

chairs: M. Apollonio, W. Arnold

- 14:05 **Lingle S., Rendall D. and Pellis S. M.** 121  
Why Help? The evolution of altruistic antipredator defence in mule deer.
- 14:28 **Kotrba R., Bartoš L., Bartošová-Víchová J., Panamá J., Kšáda V., Šustr P., Pluháček J., Dušek A., Vaňková-Formanová D., Illmann G., Šmídová E. and Miller K. V.** 122  
Cooperative anti-predatory behaviour in sympatric white-tailed, fallow, roe and red deer: Experimental confirmation using a dummy.
- 14:51 **Fričová B., Bartoš L., Bartošová-Víchová J., Panamá J., Šustr P. and Šmídová E.** 123  
Rutting encounter between males and female choice in fallow deer (*Dama dama*).

15:11 - 15:45 *coffee break*

Tuesday 8<sup>th</sup> August 2006

15:45-18:00



**A III. BEHAVIOUR AND WELFARE**

chairs: M. Apollonio, W. Arnold

15:45 **Šustr P. and Jirsa A.** 124

Habitat selection and home range size of red deer (*Cervus elaphus*) in montane areas of Šumava National Park, Czech Republic - preliminary results.

16:08 **Carranza J., Mateos C., Alarcos S., Sánchez-Prieto C. B. and Valencia J.** 125  
Sex-specific strategies of dentine depletion in red deer.

**A III. SEASONAL AND NON-SEASONAL DEER: ARCTIC TO TROPIC**

chairs: S. Find'o, W. Suter

16:31 **Find'o S., Bučko J. and Steyaert S.** 184

Seasonal migration pattern of red deer (*Cervus elaphus* L.) in the central Slovakian mountains.

16:54 **Zweifel-Schielly B. and Suter W.** 185

Scale-dependent habitat selection of GPS-collared Alpine red deer the role of food availability and quality.

17:17 **van Oort B. E. H., Tyler N. J. C., Gerkema M. P., Folkow L. and Stokkan K. A.** 186

Photic modulation of the temporal pattern and rate of activity in reindeer.

17:40 **Balfanz F., Beiglböck C., Huber S., Palme R. and Arnold W.** 153

The influence of season, food intake, and social rank on cortisol secretion in red deer (*Cervus elaphus*).

**SIC**

18:00 **Workshop Huemul conservation working group meeting (coordinator: J. A. Smith-Flueck, Argentina)**

8:45 *plenary lecture*

chair: H. Kierdorf

**Li C. and Suttie J. M.**

***Recent progress in antler regeneration and stem cell research***



9:45 - 10:05 *coffee break*

***A I.***      **MANAGEMENT OF ENDANGERED DEER**

chairs: R. Gill, Yan-Ling Song

10:05 ***Khan J. A. and Kaleem A.***

86

Status, ecology and conservation of barasingha (*Cervus duvauceli duvauceli*) in Terai grasslands of Northern India.

10:28 ***Chen M. and Zhang E.***

94

Status, genetic structure and Conservation suggestion of Chinese water deer.

10:51 ***Zhang M., Jiang G., and Ma J.***

95

Spatial pattern characteristics of wapiti habitat fragmentation factors based on spatial autocorrelation and semi-variance analysis in Northeastern China.

11:14 ***Locatelli Y., Vallet J.-C., Legendre X. and Mermillod P.***

96

Assisted reproductive technologies for endangered deer species.

11:34 - 13:00 *lunch*

***SIC***

13:00 - 14:00 ***poster session I.***

**28 - 47, 65 - 70, 77 - 85, 97 - 99, 201** (see page 36)

***A I.***

14:05 - 16:00 ***workshop 1***

**Deer Management (coordinator: David Hewitt, Karl Miller, USA)**

16:00 - 16:15 *coffee break*

16:15 - 18:00 ***workshop***

**Deer Management (coordinator: David Hewitt, Karl Miller, USA)**

Friday 11<sup>th</sup> August 2006

8:30-15:11



8:30 *plenary lecture*

chair: N. Tyler

**Forchhammer M. C.**

***Deer response to global environmental changes.***

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9:45 - 10:05 *coffee break*

9:50 - 10:45 *poster session II.*

107 - 112, 126 - 127, 133, 135 - 139, 149 - 151, 158 - 159, 168 - 171, 176 - 178,  
182 - 183, 187 - 188, 192 -193, 196 - 198, 202 (see page 39)

*A I.* **MANAGEMENT OF ENDANGERED DEER**

chairs: R. Gill, Yan-Ling Song

10:51 ***Khursheed A., Sathyakumar S. and Qureshi Q.*** 90

Population ecology of Hangul (*Cervus elaphus hanglu*) in Dachigam National Park, Kashmir, India.

11:14 ***Zhang Q., Song Y.-L., Zhang, D.-X. and Zeng Z*** 91

Microsatellite variation of Hainan Eld-s deer (*Cervus eldi hainanus*) in China: Implications for conservation.

11:34 - 13:00 *lunch*

13:00 *plenary lecture*

chair: N. G. Chapman

**Apollonio M.**

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***Fallow deer, lekking and alternative mating strategies in San Rossore, Italy: Insights from a long term study.***

*A I.* **MANAGEMENT OF ENDANGERED DEER**

chairs: R. Gill, Yan-Ling Song

14:05 ***Perelberg A., Bar-David S., Roll U., Dolev, A. and Saltz D.*** 92

Social structure of the reintroduced Persian fallow deer (*Dama mesopotamica*) population: integrating three observation methods.

14:28 ***Gill R., Saucedo C. and Aldridge D.*** 93

Ecology and conservation of the huemul in southern Chile.

*A I.* **CENSUSING AND MODELLING POPULATIONS**

chairs: R. Andersen, B. Bobek

14:51 ***Bobek B., Frąckowiak W., Gawor M., Kolecki M., Merta D. and Wiśniowska L*** 128

Censusing and modelling of red deer (*Cervus elaphus* L.) populations in Poland by using “Invent” and “Antler-2000” software.



*A II.*     **GENETICS AND EVOLUTION**

chairs: S. M. Carr, K. Rød

- 10:05 ***Perez-Espona S., McLeod J., Perez-Barberia F. J., Jiggins C., Gordon I. and Pemberton J.***     71  
Landscape features affect gene flow of Scottish Highland red deer (*Cervus elaphus*).
- 10:28 ***Duarte J. M. B., Gonzalez S. and Maldonado J. E.***     199  
So similar and yet so different: The surprising polyphyletic origin the genus *Mazama* (Mammalia: Cervidae).
- 10:51 ***Haanes H., Rød K. H. and Rosef O.***     72  
Sex biased dispersal in an expanding red deer population.
- 11:14 ***Carr S. M., Richards E. D., Marshall H. D. and Smith-Flueck J.***     74  
A molecular phylogeny of the evolutionary radiation of New World deer (Odocoileinae, Cervidae): Implications for biogeography and the evolution of antlers.

11:34 - 13:00 *lunch*

***SIC***

13:00 - 14:00 ***poster session I.***  
**28 - 47, 65 - 70, 77 - 85, 97 - 99, 201** (see page 36)

*A II.*

14:05 - 16:00 ***workshop 2***  
**Telemetry and analyses of GPS data (coordinator: Stefano Focardi, Italy)**

Friday 11<sup>th</sup> August 2006

8:30-15:11



*A II.*     **GENETICS AND EVOLUTION**

chairs: S. M. Carr, K. Rød

- 10:51 **Rød K. H., Haigh J. C., Gerwing V. and Keay M.** 75  
Genetic distinctiveness of isolated and threaten Tsaatan reindeer herds in Mongolia.
- 11:14 **González S., Cosse M., Raimondi V. , Merino M. L., Galvan B. and Maldonado J. E.** 76  
Conservation genetics of Argentinean pampas deer populations.

11:34 - 13:00 *lunch*

*A II.*     **RESPONSES OF DEER TO GLOBAL ENVIRONMENTAL CHANGE**

chairs: M. C. Forchhammer, W. Flueck

- 14:05 **Barrio J.** 152  
Biogeography of Cervidae in Peru.
- 14:28 **Smith-Flueck J. M. and Flueck W. T.** 154  
Defense of territories by rutting red deer stags, *Cervus elaphus*, in Patagonia, Argentina.
- 14:51 **Said S., Pellerin M., Le Corre M., Widmer O. and van Laere G.** 155  
Spatial behavior paths of food search in roe deer (*Capreolus capreolus*).



*A III.*    **ANTLER BIOLOGY**

chairs: G. A. Bubenik, U. Kierdorf

- 10:05 **Rolf H. J., Kierdorf U., Kierdorf H., Seymour N., Napp J., Schliephake H. and Wiese K. G.** 140  
Visualization and characterization of stem cells from the regenerating deer antler.
- 10:28 **Napp J., Wiese K. G., Kierdorf U., Kierdorf H., Seymour N., Schliephake H., and Rolf H. J.** 142  
Stem cells isolated from the regenerating antler express key markers of the osteogenic lineage.
- 10:51 **Mount J. G., Muzylak M., Allen S., Okushima S., Althnaian T., McGonnell I. M. and Price J. S.** 141  
Antlers may regenerate from persistent neural crest- like stem cells.
- 11:14 **Audenaerde P. M. F. and Simoens P. J. M.** 115  
Fetal differentiation of the antler developing area in red deer (*C. elaphus*).

11:34 - 13:00 *lunch*

**SIC**

13:00 - 14:00 *poster session I.*  
28 - 47, 65 - 70, 77 - 85, 97 - 99, 201 (see page 36)



Friday 11<sup>th</sup> August 2006

8:30-15:11



*A III.* **ANTLER BIOLOGY**

chairs: Ch. Li, H. Rolf

- 10:51 **Rolf H. J., Wiese K. G., Bubenik G. A., Bartoš L., Kotrba R., Lütjens I. and Schliephake H.** 143  
Mitogenic effects of androgens on mixed antler cell cultures.
- 11:14 **Bartoš L., Schams D., Šiler J., Losos S. and Bubenik G. A.** 144  
Antler growth in red deer stags (*Cervus elaphus*) depends on testosterone, but not IGF-1, LH, prolactin or cortisol.

11:34 - 13:00 *lunch*

*A III.* **ANTLER BIOLOGY**

chairs: Ch. Li, H. Rolf

- 14:05 **Rolf H. J. and Lohmann C. H.** 116  
Central vessels in roe deer antlers (*Capreolus capreolus*) - a histomorphological study.
- 14:28 **Caboni A., Murgia C. and Mattioli S.** 117  
Antler characteristics of the Sardinian red deer (*Cervus elaphus corsicanus*): a preliminary analysis.
- 14:51 **Landete-Castillejos T., Estevez J. A., Garcia A. J., Ceacero F., Gaspar-López E., Carrión D. and Gallego L.** 148  
What we can learn from antler composition and structure: from nutrition to management.



*A I.*      **CENSUSING AND MODELLING POPULATIONS**

chairs: R. Andersen, B. Bobek

- 15:45 ***Focardi S., Franzetti B., Monaco A. and Pedrotti L.***      129  
Estimating red deer populations abundance in the Alps: successful  
experiments on night surveys.
- 16:08 ***Tappe P. A. and Kissell Jr. R. E.***      130  
Whitetailed deer density estimation using thermal infrared imaging.
- 16:31 ***Daniels M. J.***      131  
Estimating red deer *Cervus elaphus* populations: an analysis of variation  
and cost effectiveness of counting methods.
- 16:54 ***Morales J. M.***      132  
Simple movement models for complex animals in heterogeneous  
landscapes.
- 17:17 ***Takahashi H. and Kaji K.***      134  
The second mass-mortality of an introduced sika deer population.
- A I.*  
17:20 Closing ceremony





<i>A II.</i>	<b>RESPONSES OF DEER TO GLOBAL ENVIRONMENTAL CHANGE</b>	
	chairs: M. C. Forchhammer, W. Flueck	
15:45	<b><i>Davies M. H., Chapple D. G. and Cottrill B.</i></b>	156
	Carbon and nitrogen efficiencies in venison production	
16:08	<b><i>Swainson N. M., Hoskin S. O. and Clark H.</i></b>	157
	Methane production by farmed red deer.	
<i>A II.</i>	<b>VENISON AND ITS POTENTIAL CONTRIBUTION TO DIET</b>	
	chairs: J. Fletcher, J. Flesch	
16:31	<b><i>Fletcher T. J.</i></b>	189
	Venison and the history of early European hunting enclosures.	
16:54	<b><i>Sookhareea R., Tume R., Shorthose W. R. and Dryden G. M.</i></b>	190
	Fatty acid profiles in Javan rusa ( <i>Cervus timorensis russa</i> ) stags.	
17:17	<b><i>Hutchison, C. L., Flesch, J. S., and Mulley, R. C.</i></b>	191
	The effect of pelvic suspension on the biochemical and sensory quality of venison from red deer ( <i>Cervus elaphus</i> ) and fallow deer ( <i>Dama dama</i> ).	





**A III. PROBLEMS OF DEER OVERABUNDANCE**

chairs: S. D. Côté, O. Suominen

- 15:45 **Miller B. F., DeYoung R. W., Campbell T. A., Laseter B. R., Ford W. M. and Miller K. V.** 163  
 A test of localized management in a white-tailed deer herd.
- 16:08 **D'Angelo G. J., D'Angelo J. G., Gallagher G. R., Osborn D. A., Miller K. V. and Warren R. J.** 164  
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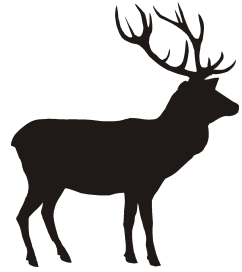
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