SUMMER PRACTICE GUIDELINES in ANIMAL NUTRITION
FOR EX-GERMAN STUDENTS
(deadline: the 18th August 2017)

Deadline of submission of the report including diary: the 18th August

The aims of summer practice are to directly experience the practical issues of animal nutrition and technology of large-scale farm animals, and to highlight the cooperation and bond between animal nutrition and veterinary work.

General rules

1. Summer farm practical (in Animal Nutrition) is compulsory. Former farm work experience does not substitute the present practice, as your knowledge gained during lectures and practicals gives the grounds for your critical approach, which is necessary for the proper performance of the summer practical.

2. The length of the summer practical is 2 weeks (from the 3rd of July till the 14th of July).

3. The review of 2 different animal species is required. The farm has to be a large-scale facility, preferably dealing with dairy cows, swine, sheep, goat or fish. Horse, beef cattle and poultry breeding facilities are also accepted. Small family farms, zoos or minor breeding businesses are not accepted.

4. The Training Agreement (Annex 1.) shall be signed by the farm manager and the student, and it shall be attached to the report.

5. It is possible to accomplish the farm practice at two separate farms, 2 weeks altogether, one after the other. In this case, two separate Training Agreements shall be signed and attached.

6. It is your responsibility to manage the arrangements for the proper place for the summer practice.

7. a) A summary report,
   b) a diary describing the daily activities day by day and
   c) a signed note from the farm manager validating the participation

shall be prepared, printed out, bound together (original and photo copied) and handed in as a HARD COPY to the Secretariat of the Department of Animal Nutrition (1077 Budapest, Rottenbiller u. 50) until the 18th August.

Submission of the report is a PREREQUISITE for the exam of Animal Nutrition II, for the semester. Moreover, submission of the report is also a prerequisite for enrolling for the discipline of Animal Nutrition, as those, who submit late will lose the chance for registering.

8. The report shall be emailed to naplo.atlt@univet.hu (.doc, .docx or .pdf format, maximum 4 Mb) to control in plagiarism database until the beginning of the semester.

9. Your critical approach and well-based opinion is highly desired and appreciated!

10. We are interested in your own work and statements, therefore, identical reports or diaries, even from the same farm will not be accepted.
11. The content of report should reflect all the relevant considerations written below.

12. The structure of report must follow the guidelines below.

**Instructions for preparation of the report and the diary**

**Objectives, requirements**

The aims of the 2-week summer practical are the understanding of the every-day practice of animal nutrition as well as its rules, considerations, habits, strategies, trends and the proper role of the veterinarian surgeon in it.

During the time of the practical you need to be employed in the routine daily work of the farm and activities, according to the directions of the supervisor or the owner (farmer).

An up-to-date diary must be kept about all the activities day by day (hand-written or electronic). This should be signed by the supervisor or by the owner of the farm at the end of the practical and shall be included as Chapter 4 of your report.

You have to summarise your experiences and observations collected during the practical in a report (18-25 written pages, preferably illustrated by photos, figures and tables). Ex-German students can prepare their summer practical reports in German as well, if they prefer that opportunity.

The Department will evaluate the report, and a mark (scores from 2-5) will be included in the scores of final examination, if the summer practical and the report were accepted.

Your critical approach and well based opinion is very important, such as the quality of the presentation of your work.

**Structure of the report**

- Formal requirements:
  - font size: 12
  - spacing: 1.5
  - margins max. 2.5 cm
  - each page except for the cover page shall be numbered
  - size of images is max. half a page each
  - extra pages, images, documents might be inserted at the end of the document

- Structure:

  1) **Cover page:** contains your name, farm`s name, supervisor`s name, date

  2) **Table of Contents with page numbers**

  3) **General description of the farm / unit (6 -8 pages, 1-2 maps, 2-3 images)**

     - name, address, location, economical and ecological conditions
     - the farmer’s or supervisor’s name; size of the land, farm-income, kinds of production (i.e. plants, animals) and products, percentages of the plants produced
     - labour conditions, management of the farm and of the animal breeding units, workers employed
     - species and breeds bred on the farm(s)
     - number of breeding and production animals (males, females) of different age groups
     - the main production results of the previous year
4) Diary. Short description of the daily work, day by day (appr. 4 pages)

5) Extra information (further images, pedigrees, maps, etc.)

6) Aspects and trends in animal nutrition (12 – 17 pages, 3-4 images)

1. Introduction
- species, breeds and hybrids used on the farm
- their numbers on the farm
- pasture: size, vegetation, fertilization, grazing period and mowing
- feedstuffs produced on the farm
- feed preservative methods used on the farm
- the quantity of feedstuffs produced on the farm
- other feedstuffs fed on the farm
- dietary supplements and feed additives used on the farm
- chemical analysis of feedstuffs (content of nutrients in feedstuffs)
- mixing-house
- feeding technology, feeding management, feed preparation
- feed quality control
- drinking system

2. Detailed description
i) Dairy farms
- body condition of cows at the time of calving (parturition)
- detailed feeding of cows in the different phases of lactation, depending on the milk yield: feeds, daily amounts, composition and nutrient contents of the daily rations
- detailed feeding of cows during dry period: aim of feeding, feeds and their daily amounts, nutrient contents of the daily rations
- the time of re-insemination
- detailed feeding of calves: body weight at birth, feeding colostrums: its daily and total quantity, duration the feeding colostrum, the beginning of solid feed feeding, feedstuffs as solid feeds, age and body weight at weaning
- rearing of calves after weaning and rearing of heifers
- age and body weight of heifers at the time of first insemination
- nutritional disorders of cows only on the farm (not in general)

ii) Small ruminants (sheep & goat)
- see above in dairy cows
- flushing
- rearing of lamb or kids
- fattening lambs: birth weight, body weight at the slaughter, duration of fattening period, feeds and their daily amounts
- nutritional disorders of sheep or goats only on the farm

iii) Beef cattle herd
- yearly circle of beef cattle: time (season) of parturition as well as re-mating, weaning of the calf
- feedstuffs for beef cattle(mother cows and fattening bulls) including pasture and their daily amounts
- fattening calves: birth weight, body weight at the slaughter, duration of fattening period, feeds and their daily amounts
- nutritional disorders of beef cattle and calves only on the farm

iv) Horse nutrition on the farm
- feedstuffs given to the horses
- type of exercise (work intensity)
- pre-exercise feeding and post-exercise feeding: feedstuffs and their daily amounts, nutrient contents of the daily rations
- drinking water pre- and post-exercise
- additives given to horses
- rearing of the foals: body weight at birth, daily suckling frequency, detailed creep feeding, age at the weaning, composition of the daily ration after weaning
- nutritional disorders of horses only on the farm

v) **Pig farm**
- ingredients and nutrient contents of different diets fed to pigs in different life stages (i.e. pregnancy, lactation, rearing, fattening)
- daily amounts of diet in different life stage (i.e. pregnancy, lactation, rearing, fattening)
  feeding of sows: time of the first insemination after farrowing, body weight and the back fat thickness at that time
- measurement of back fat thickness
- diets for pregnant sows
- feeding lactating sows: body weight and the back fat thickness at the time of farrowing
- diets for lactating sows
- age and body weight of piglets at the time of weaning
- rearing of piglets: their birth weight, creep feeding of piglets
- Fe (iron) supplementation of piglets
- rearing the gilts: time of the first insemination, body weight and the back fat thickness at that time
- diets for gilts
- fattening pigs: age and body weight at the beginning of the fattening period and at the slaughter, duration of fattening period
- diets for fattening pigs
- nutritional disorders of pigs only on the farm

vi) **Poultries**
- ingredients and nutrient contents of different diets fed on the farm
  **Meat production** (boilers, turkeys, ducks and so on)
- egg weight, body weight at the time of hatching and at the slaughter, duration of fattening period
- feed conversion efficiency/ratio (how many kgs of diet are needed for 1 kg weight gain/meat)
  **Layers**
- age at the beginning of laying, length of laying period, egg yield, weight of the egg
- diets for layers

3. Conclusions
- conclusions drown from the practical (usefulness, insufficiency etc.) should be summarized. Your critical approach and well based opinion should be discussed.
TRAINING AGREEMENT FOR SUMMER PRACTICE

Between Department of Animal Breeding and Genetics, Institute of Animal Breeding, Nutrition and Laboratory Animal Science, University of Veterinary Medicine, Budapest, Hungary (DEPARTMENT)

And ........................................................................................................................................ (PARTNER ORGANISATION)

And ........................................................................................................................................ (STUDENT)

WHEREAS the PARTNER ORGANIZATION accepts the STUDENT as an intern within the framework of this agreement.

The parties agree to the following:

I - INTERNSHIP

1.1 The training period and this agreement will have a duration of 2 weeks, from ............... to ...............  

1.2 The STUDENT’s training requirements are described in the Department’s handout that is available on the Department’s website., and is attached to this agreement as supplement. 

1.4 During his/her internship, the STUDENT shall not receive any remuneration from the PARTNER ORGANIZATION. 

1.5 The STUDENT shall not be considered, in any way, an employee of the PARTNER ORGANIZATION, either for the purposes of the internship or as part of it.

II – FACULTY’S OBLIGATIONS

Under this agreement, the FACULTY assumes the following obligations:

1. To conduct a follow-up with the STUDENT once the internship is complete via a written report and diary; 

2. The FACULTY is not responsible for any physical, personal damages, injuries or financial losses caused directly or indirectly by the STUDENT.
III – PARTNER ORGANIZATION’S OBLIGATIONS

Under this agreement, the PARTNER ORGANIZATION assumes the following obligations:

3.1 To welcome the STUDENT, to integrate him/her into the workplace and to assign him/her professional tasks related to the specified objectives of the internship.

IV – STUDENT’S OBLIGATIONS

4.1 During his/her internship with the PARTNER ORGANIZATION, the STUDENT will remain a student of the FACULTY but shall follow the rules and internal regulations of the PARTNER ORGANIZATION, particularly those related to discipline, working hours, work safety and confidentiality. He/she shall also comply with the work methods, social norms and standards of dress of the PARTNER ORGANIZATION and be very respectful of others in the interests of integrating into the workplace as successfully as possible.

4.2 The STUDENT shall not divulge any confidential information obtained during the internship that the PARTNER ORGANIZATION has indicated is confidential without having first obtained a formal written authorization from the PARTNER ORGANIZATION.

4.3 The STUDENT shall respect the confidential nature of the information obtained from clients of the PARTNER ORGANIZATION and shall not divulge any part of it without first having obtained a formal written authorization from the persons or organizations involved.

András Bersényi DVM PhD

Supervisors ___________________________ Partner organisation ___________________________

Student ___________________________