



# Seminar Program „Livestock Farming“



# DEULA Nienburg - Department of Animal Husbandry

## International Cooperation



DEULA Nienburg offers you an individual educational program in the areas of dairy and pig farming as well as poultry and fish production.

Possible topics could be the optimization of the young stock breeding, innovative approaches to livestock management or modern feeding techniques.

Our claim is to provide you with useful information and make complex information accessible to you in practical terms. Since 1926 DEULA Nienburg successfully provides practical training.

We gladly adjust the topics to your personal wishes and ideas. DEULA Nienburg as a „global player“ can use numerous connections to other institutions and organizations to provide you specific expertise at the highest level. Our educational program is aimed at professionals and executives around the world.

In addition to direct training and education DEULA Nienburg has many years of experience in organizing educational trips to various points of contact in Germany, such as visiting various manufacturers or centers of excellence. Take the opportunity to expand your personal network with valuable business connections and later to communicate new impulses in your home country. Comprehensive impressions and background information on the production of agricultural products in Germany are awaiting you.

### Current Projects:

- » Poland: „Fact-finding journey concerning the development of biotechnological methods of modern livestock genetics – with focus on the genomic selection“
- » Russia: „Use of electronics in dairy farming. Controlled managing of growing herd sizes“
- » Argentina: „Nutritional concepts for dynamic animal regions. Process technologies and political approaches in Germany“
- » Africa: „Improving laying hen husbandry. Approaches and forms of husbandry in comparison“
- » Turkey: „Safe production. Hygiene guidelines and their implementation in German slaughterhouses“
- » Morocco: „Building a practical training center – focus on cattle farming“
- » Asia: „From the piglets to cutlets. Process and product quality according to the most advanced standards of knowledge“

# Overview of potential projects

## Vulnerability Analysis: Herd manager intensive course

In order to produce milk economically in the future, it is important to create nowadays competitive structures on the farm. The herd management is one of the key success factors. In addition to various optimization and management recommendations, valuable advice in the handling and management of your employees are awaiting you.

Seminar contents:

- » Optimizing work processes and work organization
- » Specific recommendations for feeding and fertility management
- » Preventive and curative measures to improve animal health
- » Important information on design of stable air conditioning



## Improved performance in the laying hen house



Instructors: Dr. Birgit Spindler (University of Veterinary Medicine Hanover, Institute for Animal Hygiene, Animal Welfare and Livestock Ethology ), J. Schulz (FLI Celle, Institute of Animal Welfare and Animal Husbandry), R. Preisinger (Lohmann Animal Breeding) Prof. Dr. R. Andersson (FH Osnabrück, Institute of Animal Husbandry and Products)

The seminar is intended to provide you as laying hen farmer the opportunity to comprehensively educate yourself in things to know about the animal. The focus is on the issues of feeding, housing, management and organization of dual-purpose hen production.

### Seminar contents:

- » Hen signals – impact on feeding and hen house design
- » Feather pecking and cannibalism
- » Control options of the „red mite“ in comparison
- » Dual-purpose hen: Chance or misconception?



Instructor: Femke Bruegesch, M. Sc. (DEULA Nienburg)

- » Animal identification
- » Heat detection
- » Birth control
- » Food and water consumption
- » Metabolism monitoring
- » Udder health
- » Claw health

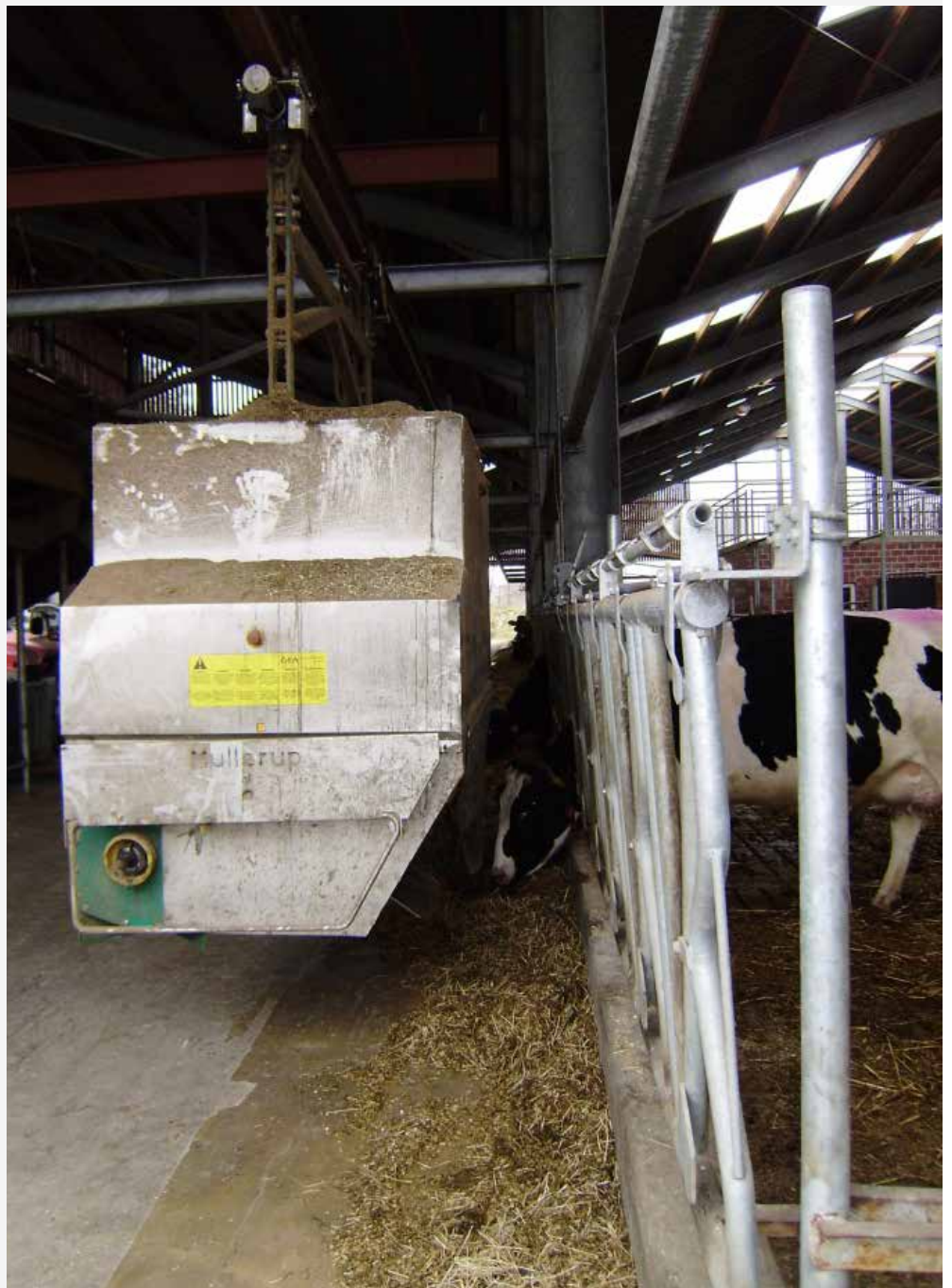


## Feeding robots in operation

After the successful establishment of milking robots automatic operating feeding systems facilitate the farmer's daily work in the stable and enable adequate feed supply. Learn more about the function and operation of the various systems and convince yourself of their work. Intelligent feeding for new or existing stable floor plans.

### Seminar contents:

- » Pros and cons of automatic feeding systems
- » Different systems in comparison
- » Experiences in the field
- » Economic considerations



# Modern nutrient management with liquid manure separation



Save on storage volume, improve the transportability of the liquid manure and much more. The separation of liquid manure into a solid and a liquid phase has many advantages. Plant operators inform about marketing and re-use avenues of the separated phases and describe their experiences on the practical use of separators.

## Seminar contents:

- » Different separation systems in comparison
- » Possibilities and limitations
- » Marketing and re-use avenues
- » Economic considerations



# Focus heifer. Prepare the female offspring optimally for the performance period

Instructors: Femke Bruegesch, M.Sc. (DEULA Nienburg), Dr. K. Mahlkow-Nerge (LWK SH), Agroprax (Ankum), E. Gerdes (Beratungsring Oldenburg e.V.)

Heifers are the future of milk production – They define the genetic progress and economic success of the coming years. Reason enough to pay special attention to them. The seminar provides livestock owners useful information to optimally prepare young animals for the upcoming performance period and improve the productive life.



## Seminar contents:

- » Economic advantages
- » Difficulties in keeping large groups
- » Feeding according to specific needs
- » How can I monitor the weight gain
- » What should I consider in pasture feeding
- » Hoof care for young animals
- » Automatic heat detection systems
- » Fresh cow management and animal health

# Basic fodder – the better concentrated feed



Instructors: Femke Bruegesch, M. Sc. (DEULA Nienburg), P. Ickler, M.Sc. (Landberatung Nienburg e.V.), Dr. J. Thaysen (LWK SH), practitioner

Currently, as a national average no more than 3,000 kilograms of milk are obtained from the basic fodder. A value that is to be increased significantly for physiological, animal health and economic reasons. Valuable tips to increase feed intake and optimize forage production await the participants.

## Seminar contents:

- » Feeding based on performance and suitable for ruminants
- » How can I increase intake of basic fodder
- » Practicable management recommendations
- » Possibilities for monitoring the feed intake
- » Practical study on the basic fodder quality
- » Modern production of basic fodder
- » Economic advantages



# Data acquisition. Working smartly with herd management systems

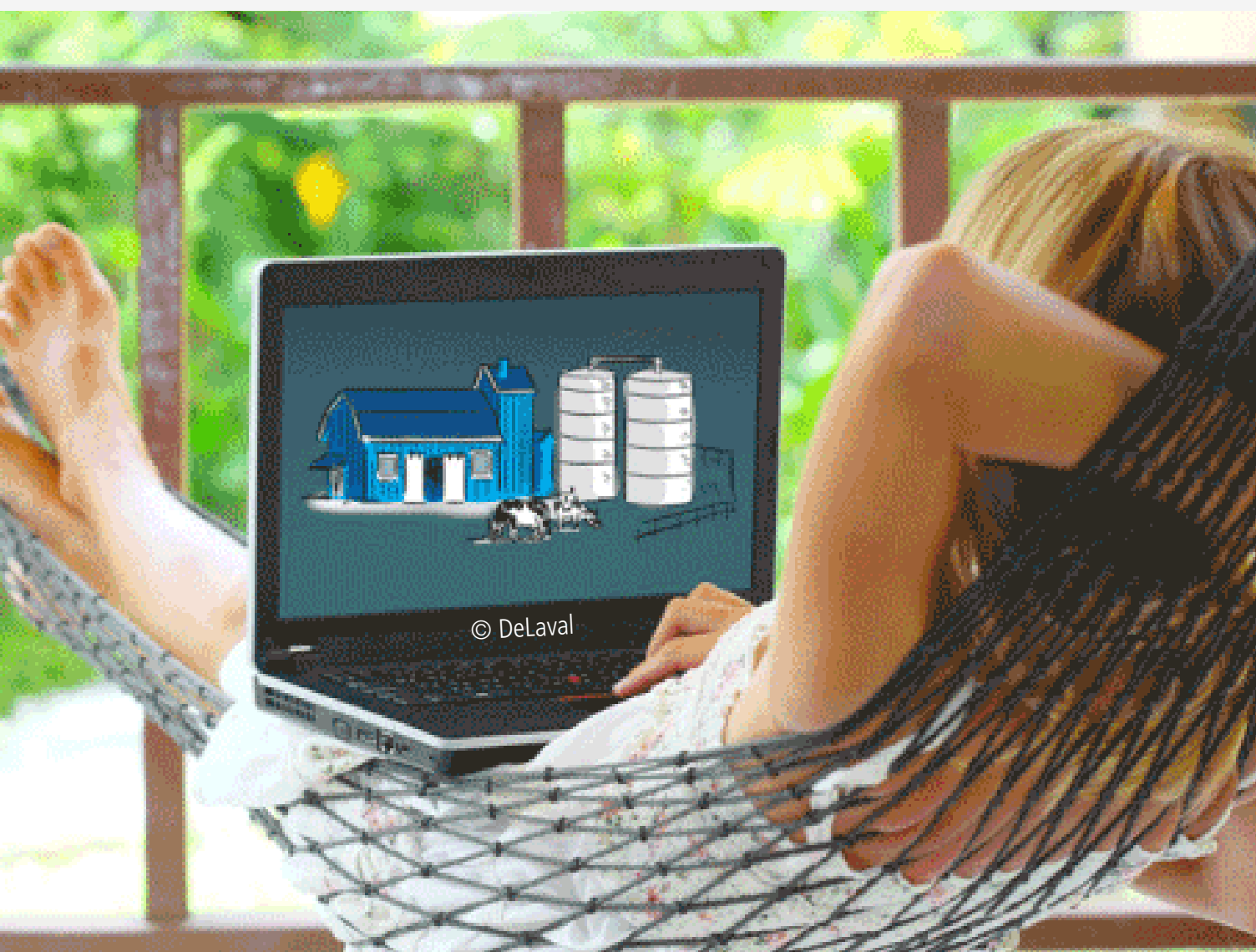


Instructors: Dr. S. Pache (Saxon State Institute for Agriculture, Department of Animal Production), veterinarian (herd care), B.Trio (practitioners, dsp agrosoft), operations manager (Practitioner, Lemmer Fullwood), A. Stelljes (practitioner, dairy comp)

The diverse working methods of herd management systems make you want more. Logically structured work surfaces facilitate inputting of the data, operation, evaluation and data transmission. Learn which possibilities the various software solutions offer you and what you should look for prior to the acquisition.

## Seminar contents:

- » Thinking of herd management already during the construction
- » What should herd management programs be able to do
- » What does individual animal identification have to achieve
- » What to look for in the choice of technology
- » Criteria for software selection
- » Experience with individual systems in practical use
- » Integration in the veterinary herd care



## Staff training: Intelligent milking.

### Interpreting indicators correctly and understanding relationships

Instructors: F. Haertel (MKV Mittelweser e.V.), H. Doertelmann, Dipl. Ing. agr. (Bovis Agricultural Consultancy)

The increasing use of workers that are not brought up in farming necessitates that the manager trains his staff regularly and efficiently. Additional to the basics, suggestions concerning the operation, the background and potential problem areas ought to be taught. After the training the participants will be able to identify diseases and disorders.

#### **Seminar contents:**

- » Physiological basis
- » Background on milk secretion
- » The basics of milking
- » Common practice errors and their effect on the milking process and animal health
- » Identifying diseases and disorders early



# Calving management for professionals

Instructors: Femke Bruegesch, M. Sc. (DEULA Nienburg), Dr. M. Becker (TA, Zoetis Animal Health), Dr. K. Mahlkow-Nerge (LWK SH), Agroprex (Ankum)

Management and husbandry conditions in the period around birth mean for cow and calf a more or less successful start into the new performance period and into a new life. Learn how you can effectively prepare for the birth, when and how you should intervene in the birth process and how to care for cow and calf after birth. We provide you with the latest technologies to monitor the birth and provide suggestions for the design of stable equipment.

## Seminar contents:

- » Handling and cow comfort
- » Principles of rationed feeding and feeding strategies
- » Suggestions for building a calving box
- » Modern detection technologies to determine the time of birth
- » Management and hygiene
- » Avoiding errors in obstetrics
- » Heifers in the large group
- » Fresh cow monitoring



# Decision support for constructing a new stable

## Solution approaches in comparison



Instructors: Femke Bruegesch, M. Sc. (DEULA Nienburg), C. Brandes (Innovations Team), A. Lindenberg, Dipl. Ing. (NLG), Agroprax (Ankum), K. Janssen (stable construction advisor), R. Kieckbusch, Dipl.Ing. (Architect), J. Harms, Dipl. Ing. agr. (FH) (NLG)

The decision for a new stable system requires a comprehensive familiarization with the possibilities of stable building and its equipment. Valuable tips and suggestions for the various functional areas in the dairy barn awaits the participants.

### Seminar contents:

- » Where do I build my stable
- » What type of stable do I choose
- » Logical stable layout
- » Special needs area
- » High or low boxes
- » Running and driving surfaces
- » Outdoor yard, yes or no
- » Grazing
- » Selection: Free or directed animal movement
- » Milking systems in comparison
- » Feeding and watering technology
- » Lighting
- » Calf rearing
- » Subsidy opportunities as per the Funding of Agricultural Investments Program (AFP)



## Calf rearing made easy



Instructors: T. Buschermoehle, Dipl.-Ing. agr (NORLAC, Zeven), Dr. P. Sanftleben (LFA, Dummerstorf)

The goal for calf rearing should be to reduce the calf losses under 5%. Learn how you can get a few steps closer to reaching this goal.  
Guaranteed success!

### Seminar contents:

- » Health maintenance
- » Hygiene concepts
- » Feeding strategies in comparison
- » Promoting basic fodder intake
- » Husbandry and management recommendation
- » Immunization programs in the test



# Staff training: Recognize, react, act properly

## On the trail of husbandry and management failures



Instructors: Femke Bruegesch, M.Sc. (DEULA Nienburg), Prof. U. Knierim (University of Kassel; department of livestock ethology and animal husbandry), A. Pelzer (LWK NRW)

Over time errors can creep into the system. A normal process in the current operation. Train your eye to observe indications, detect disorders and problem areas. Get valuable tips and suggestions for improvements and improve your perception for that which is most important – the animal.

### Seminar contents:

- » Animal behavior/signals
- » Identifying disorders
- » Vulnerability analysis
- » Optimization recommendations

# Breeding objective: Longevity

## With crossbreeding to success

Instructors: Prof. G. Thaller (University of Kiel, Institute of Animal Breeding and Husbandry), J. Mertens (University of Leipzig, Agricultural and Veterinary Sciences Association), J. Kriessmann (practitioners, Barver), A. Slabon (CRV Germany GmbH)

In dairy cattle breeding functional characteristics such as fertility, health, milkability and productive life become increasingly important because of performance requirements and cost pressures. By various methods of crossbreeding, with the use of heterosis and recombination effects and the variation between the individual breeds, improvement of the targeted and efficient characteristics is possible.



### Seminar contents:

- » Improvement of genetic variability
- » Economic evaluation
- » Breeding approaches
- » Experiences in the field

# Management recommendations to prevent poultry foot pad lesions



Instructors: Femke Bruegesch, M.Sc. (DEULA Nienburg), Prof. Dr. J. Kamphues (University of Veterinary Medicine Hanover, Institute of Animal Nutrition), Dr. J. Berk (FLI Celle, Institute of Animal Welfare and Animal Husbandry), M. - L. Stuke (Heidemark)

The partially high prevalence of poultry foot pad lesions represents a problem of significant relevance to animal welfare. The occurrence of foot pad lesions can significantly affect animal welfare, performance and carcass quality of the animals. Learn new facts about improving foot pad health.

## Seminar contents:

- » How can I control the occurrence of foot pad lesions
- » New findings from the research on various influencing factors
- » Foot pad changes as an indicator of the payout price or sanctions
- » Automatic detection systems in the slaughterhouse



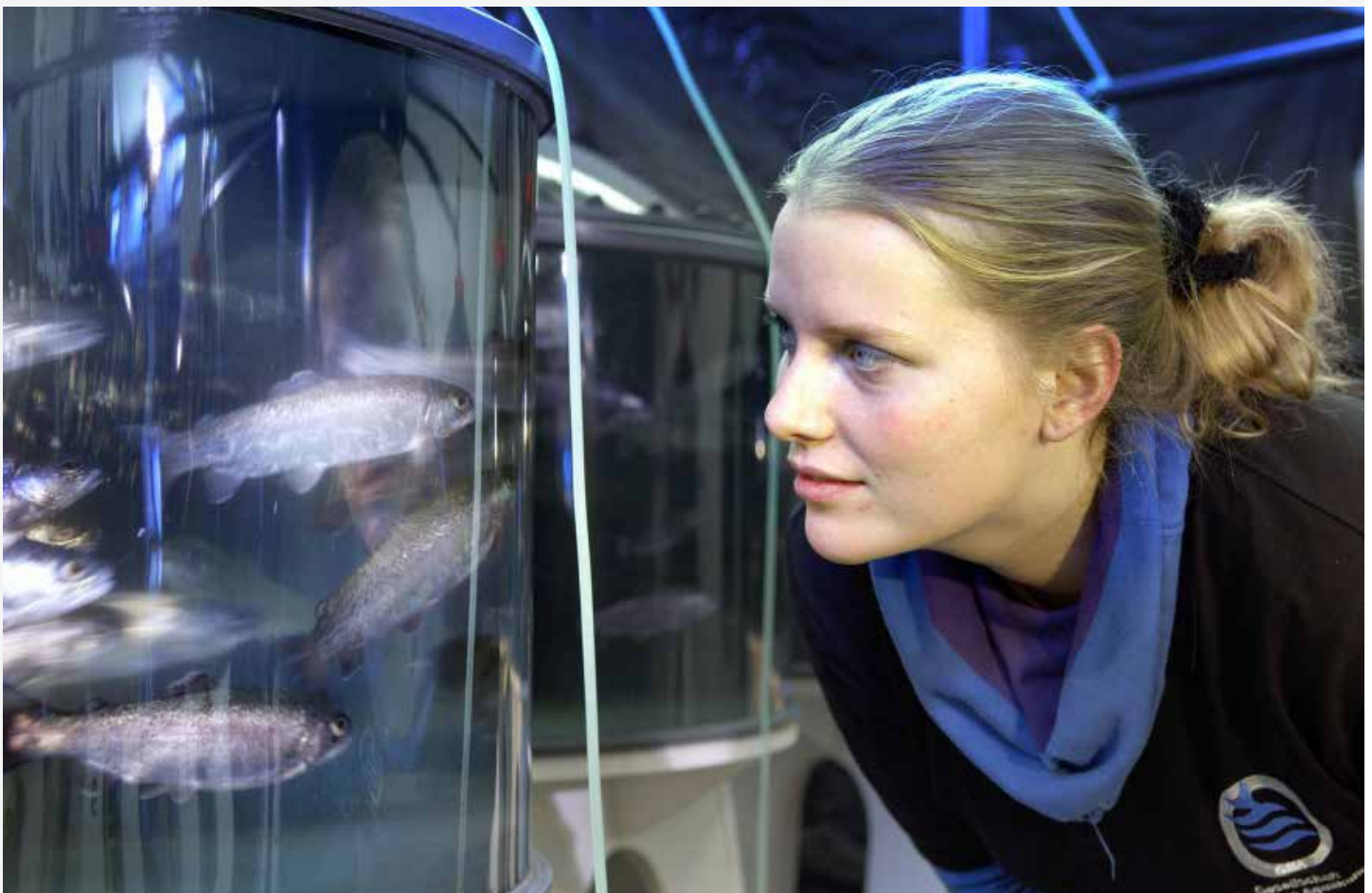
# Fish & Co. What should I know before getting into aquaculture?

Instructors: Femke Bruegesch, M.Sc. (DEULA Nienburg), Prof. Dr. C. Schulz (University of Kiel, Marine Aquaculture), H. Schäfer (practitioners, shrimp farming), Dr. M. Böer (BD Fish<sup>3</sup>)

Aquaculture is concerned with the controlled breeding of aquatic organisms living in water, especially fish, clams, crabs and algae. The seminar provides information on the prospects and challenges of aquaculture and gives suggestions to get you started.

## Seminar contents:

- » Current market situation and future prospects
- » Anatomical and physiological characteristics of the different groups of fish
- » What standards do fish demand from their husbandry environment
- » Hygiene requirements and important diseases
- » Husbandry systems and management
- » Feeding: Peculiarities, dietary composition, feed conversion
- » Sales opportunities and economic considerations
- » Legal framework and approval procedures



# Stable climate - Course: „The eye of the Lord airs the cattle“

## Focus: Domestic pig

The stable climate is the key management factor to optimize the husbandry conditions. Disorders and high temperature fluctuations directly affect the performance of the animals, their wellbeing and health. Economic consequences and damage to the structure can be averted with targeted interventions. Valuable information to improve the farming environment awaits the participants.

### Seminar contents:

- » Effects of stable climate factors
- » Fundamentals of air flow
- » Thermal insulation
- » Identify vulnerabilities of existing ventilation systems
- » Opportunities for energy savings
- » Latest information on planning and calculation
- » Advantages and disadvantages of different air supply systems
- » Efficient exhaust air system
- » Modern controlling and regulation technology
- » Small tips on settings with great effect
- » Heating – the right way
- » Cooling for hot days
- » Cost and saving potential of the exhaust air purification
- » Outdoor climate stables



# DEULA Nienburg

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