

# Güthen Abend und Willkommen

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Presentation of Applied Period Activities  
(Albert-Ludwigs-University Freiburg,  
Germany)

Gyanendra karki  
MScEF  
University of Joensuu  
Finland.

# Mission

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- To explore ownself in European environment (both social and ecological)
- To have Theoretical and practical exercise and experience on desired field of study.

# Objectives

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- To work as part of host institution
- To assess the working and management system of institution
- Work and learn on desired field of study
- To observe and study locality and social behavior
- To evaluate oneself and test own adaptive capability

# Methods of learning

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- Literature review.
- Web search
- Lecture attend
- Participate in workshops, seminar
- Field visit
- Personal contact and interviews. Etc.

# Introduction to University of Freiburg

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- The University of Freiburg was founded by Archduke Albrecht IV of Austria in 1457
- The name honors Austrain Archduke Albrecht and Grand Duke Ludwig of Baden
- There are 11 faculties in the University. **Faculty of Forestry and Environmental Sciences** is one of them
- There are 14 Institutes under Faculty of Forestry and Environmental Sciences. **Institute of Forest Growth (IWW)** is one of them
- There are 2 Departments in IWW namely, Department of Forest Growth and Department of Forest Biometry

# Institute of Forest Growth

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- The Institute for Forest Growth studies the growth of trees in their environment
- Develops decision tools for controlling forest growth and provides basic methods for the exploration of tree growth
- Research and Studies are closely linked on a national and international level
- Scientific findings are enhanced and distributed through events, publications, and study programmes

# Services of IWW

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## 1. Consulting

The Institute for Forest growth offers consulting and expertises on the following topics:

- Growth and climate
- Effects of environment on forest growth
- Forest growth in Europe
- Improvement of forest stability and value
- Management of valuable broadleaved trees

## 2. Professional Training on forest growth, management and related field of study

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# AP Supervisor(s) at IWW

## Chief Supervisor

Prof. Dr. Heinrich Spiecker

Director of IWW

University of Freiburg, Germany

## Assistant Supervisor

Joachim Langshausen

# AP Topic

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## Different Aspects of Transformation of Secondary Conifer Forests

(With special reference of Norway Spruce  
Conversion: Options and Consequences  
by Heinrich Spiecker et. al.)

# The Question of Conversion

## Background

- Deforestation
- Population growth
- Increased mining activities
- Industrial revolution
- Rapid infrastructure development
- Slow motion of natural succession and growth of natural forest
- High demand of soft wood.
- Distrust to nature

# The Question of Conversion

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## Result

- ❑ Trial for fast growing species
- ❑ Search for non-native-indigenous and exotic species
- ❑ Cutting down of natural forest
- ❑ Massive plantation of fast growing species
- ❑ Loss of natural forest areas
- ❑ Empire of monoculture

# Consequences of Monoculture of Pines



**NB: This diagram is my own view, not necessarily be accepted by all**

# The Question of Conversion

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**What to do ?**

Convert pure plantation to mixed forest

# The Question of Conversion

## How to do?

1. Follow the pace of natural succession
2. Mixed plantation
3. Multilayer management
4. Promote natural regeneration

# The Considerations of Conversion

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- Ecology
- Silviculture
- Inventory
- Management plan
- Economy (financial analysis)
- Society

## Achievements of AP

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- ❑ Collection of 12 ECTS
- ❑ Opportunity to have experiences of European culture and behavior
- ❑ Knowledge of southern Germany  
Physiography and beautiful places
- ❑ Introduction with IWW personnel
- ❑ Development of research scheme

# Feedback

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- AP is significantly important for non-European students to grow up in European environment
- AP is more exploration than learning and training
- Hypothesis of AP appears reasonably good but it should be fostered by planned conduction of AP
- Students want to listen welcome sentence from host institution „***We want to see you doing this work.***“ instead of „***What do you want to do?***“

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# Danke!

For your patience and attention.