

## **Prof. Dr. Stefan Schütz**

### **Forest Zoology and Forest Protection**

- 1988 Diplom (Chemistry), 1990 Diplom (Biology) Justus Liebig University, Gießen, Germany
- 1991 Dr. rer. nat., Institute of Inorganic Chemistry I, Justus Liebig University, Gießen (Germany)
- 1991 – 1992 R&D chemist in catalyst development at BASF AG Ludwigshafen, Germany
- 1992 – 1997 Post- Doc at the Institute of Phytopathology and Applied Zoology, Justus Liebig University Gießen
- 1995 Visiting Assistant Professor at the Institute of Entomology and Ecotoxicology, UC Davis, USA
- 1998 Post- Doc at the Institute of Electronic Materials, RWTH Aachen, Germany
- 2000 Habilitation at the Department of Agriculture and Rural Landscape, University Gießen
- 2001 Professor of Chemoeology, University Ulm, Germany
- since 2002 Professor of Forest Zoology and Forest Protection, Georg August University, Göttingen, Germany

#### **Major Research Interests**

##### Chemical ecology, sensory ecology and molecular basis of olfaction

We examine the molecular basis of plant-insect interactions from the plant and from the insect point of view. Plant volatiles are analysed because they are associated to plant stress correlating with a modified defence status of the plant. The sensory transduction processes in insect antennae mediating the information of plant susceptibility are examined to understand the algorithms of translating this information into insect behaviour. The results of this research are utilized to develop sensor-systems on the basis of insect olfaction.

##### Biotic interactions and biodiversity

We extend chemo-ecological findings into landscape by an integrative examination of biotic interactions from the molecular to the stand level. On this basis, we assess impacts of infrastructural and silvicultural measures on habitat quality, wildlife biodiversity and ecosystem functioning and develop optimized pest control- and gaming- strategies. Moreover, the results of our research are utilized to develop early-warning systems in forestry, agriculture and industry (e.g. fire, insect- and microbial attack).



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**Information for MSc and PhD students:**

Thesis projects are offered to interested MSc and PhD candidates in the above noted and related areas. Interested students are encouraged to apply to join our team. For further information, on-going projects, publications and open positions, please look at our homepage:

<http://www.gwdg.de/~uffz/>