

# 応用昆虫学セミナー開催のお知らせ

## Applied Entomology Seminar

22 February, 2010

10:00-12:00

Multipurpose Room

(Tamokuteki Kyoshitsu),

Building 2

Language: English

有機農業における害虫防除の研究をしているヘンハイム大学の Schulte 教授をお招きして、ドイツでの研究の最前線のお話をさせていただきます。

All students and staff are invited to attend. Overseas students are especially welcome. The talks will be in English.

学科や専攻に関係なく学生・職員の参加をお待ちしています。

### Contact:

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### 連絡先:

応用生物科学科

仲井まどか

(内線 5695)

2010年2月22日(月)  
午前10時00分～12時00分  
2号館1階多目的教室

**Dr. Marie Joy Schulte**  
**University of Hohenheim**

We have a dream: Successful pest control in organic farming - The Reality

### セミナープログラム

10:00 開始

10:00～11:45 Schulte 教授講演

11:45～12:00 質疑応答

12:00 終了

### Seminar overview

#### We have a dream: Successful pest control in organic farming - The Reality

Worldwide the yield and economical value of apple is immensely reduced, as all parts of apple plants are subjected to minor and major damage by a large variety of arthropod pests. Some of the major pest in organic apple production are: *Adoxophyes orana* (summer fruit tortrix moth), *Cydia pomonella* (codling moth), *Dysaphis plantaginea* (rosy apple aphid), *Grapholita lobarzewskii* (smaller fruit tortrix) and *Hoplocampa testudinea* (apple sawfly). Nevertheless, due to the economical importance of the fruits, severe damage by these arthropod pests has to be overcome by appropriate pest management strategies. Strategies in organic apple production include the application of natural compounds (e.g. plant extracts as Azadirachtin), beneficials (e.g. parasitoids as *Trichogramma* sp.), entomopathogens (e.g. bacteria and fungi as *Bacillus thuringiensis* and *Beauveria bassiana*), viruses as well as variety selections and cultural methods. However, organic plant protection is highly depending on the adequate measurement and its reliability for each insect.

The seminar will summarize the potential organic strategies against the major pests (*Adoxophyes orana*, *Cydia pomonella*, *Dysaphis plantaginea*, *Grapholita lobarzewskii* and *Hoplocampa testudinea*) in apple. Furthermore, application, implementation and development of the measurements on farm level will be discussed.