

# Building Models to Build Understanding

Peter Lampert

Martin Rose

[peter.lampert@univie.ac.at](mailto:peter.lampert@univie.ac.at); [martin.rose@univie.ac.at](mailto:martin.rose@univie.ac.at)

# Why pollination biology?

- Major role in the lifecycle of flowering plants
- Includes important basic concepts of biology
- Links zoology and botany
- Great example for coevolution
- Related to children's environment
- Recent decline of bee hives
- ...

# What do children think about pollination?

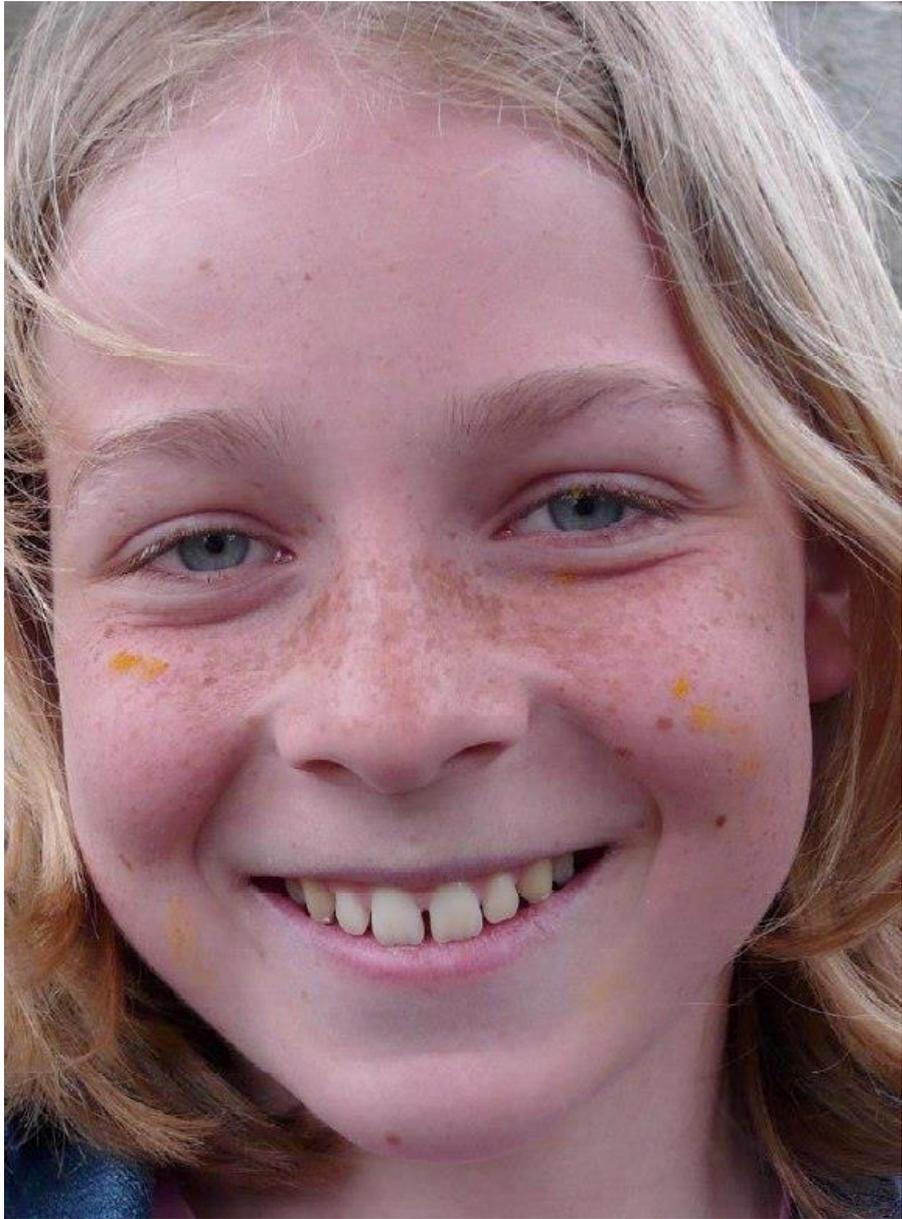
- Children struggle to explain pollination
- Pollination = Seed dispersal??
- Children are not aware of differences in flowers

⇒ **CHILDREN HAVE TO GET IN TOUCH WITH FLOWERS AND POLLINATION**

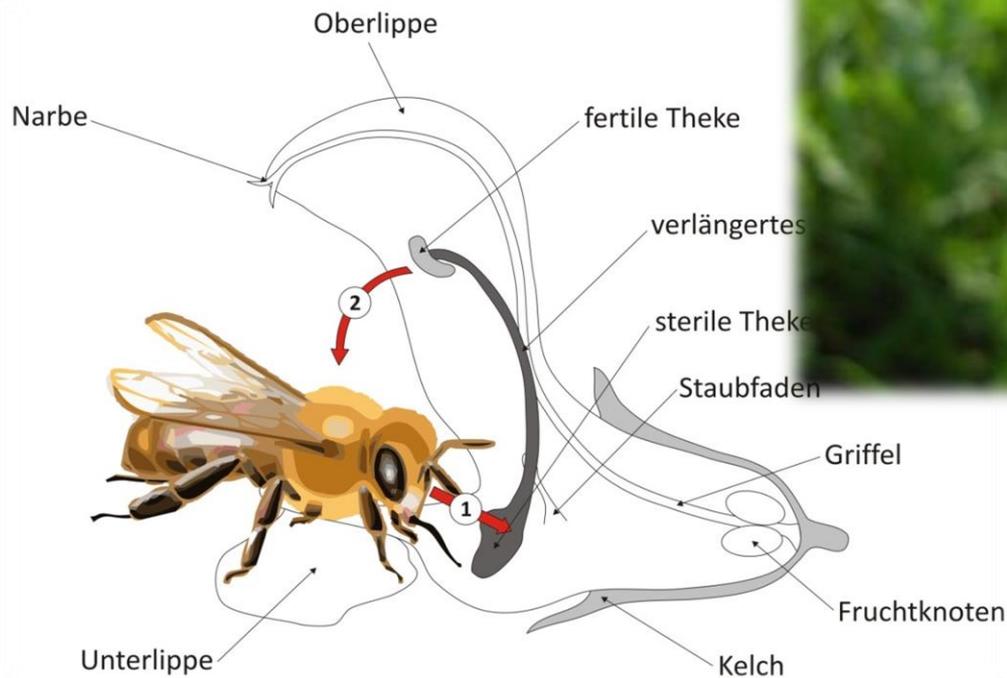
– *Insects visit flowers in order to pollinate them: „Working insects“*

# Flower models



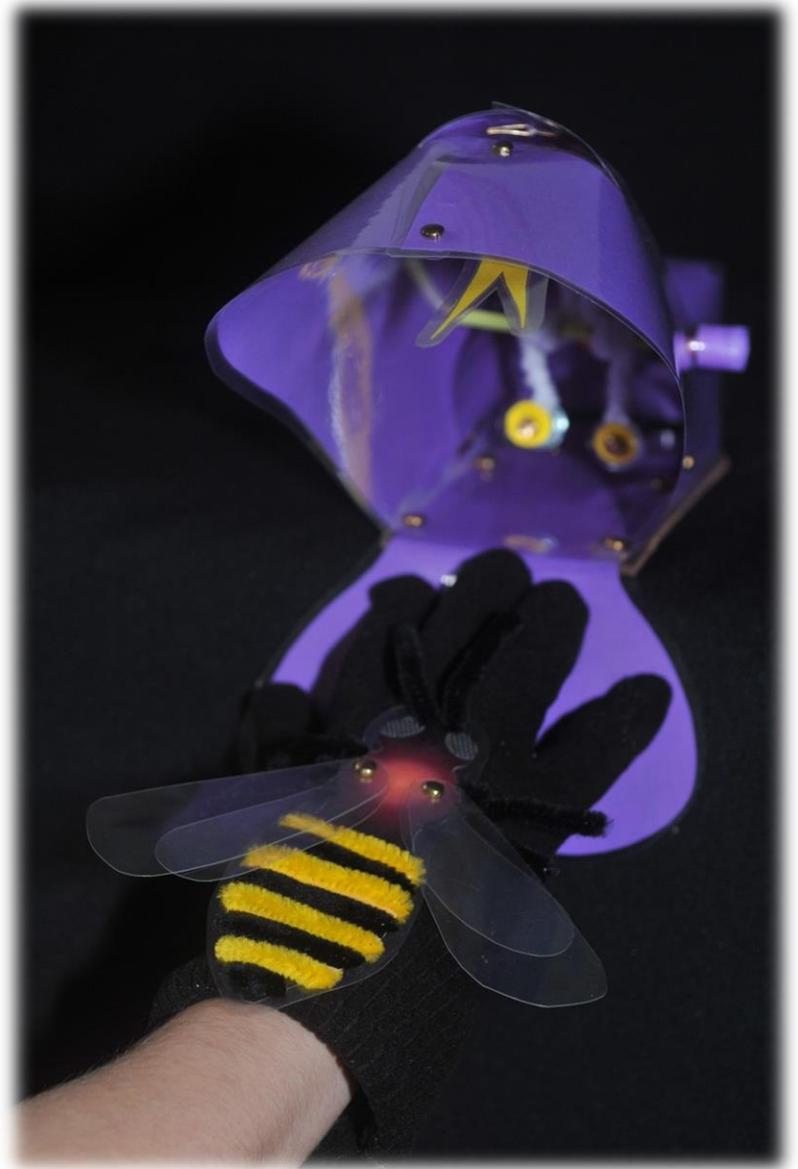


# *Salvia pratensis* (Meadow sage)



[www.pflanzenlust-blog.de](http://www.pflanzenlust-blog.de)

# *Salvia* model



# Composite blossom



# *Taraxacum officinale* (Dandelion)

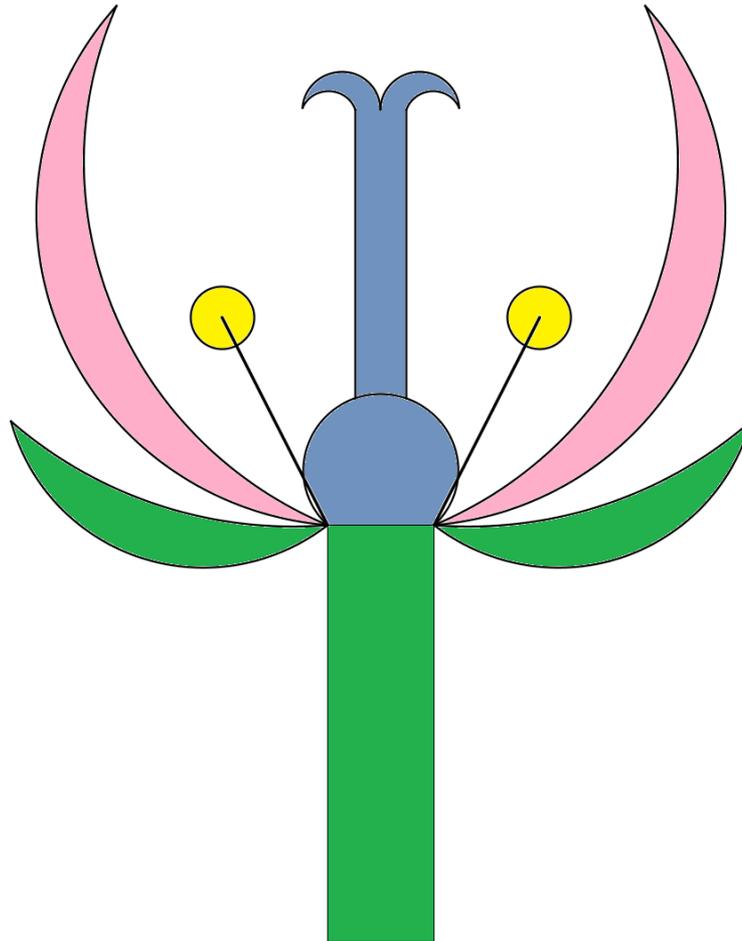


[http://upload.wikimedia.org/wikipedia/commons/f/f6/Loewenzahn\\_Taraxacum\\_officinale.jpg](http://upload.wikimedia.org/wikipedia/commons/f/f6/Loewenzahn_Taraxacum_officinale.jpg)

# Material & Tools



# Hermaphrodite flower



*Angraecum  
sesquipedale*



*Xanthopan morgani*



<http://4.bp.blogspot.com>

<http://thestayathomescientist.files.wordpress.com>

