Pollination Biology

Botany 400 - 2010

The challenge... In this exercise you will examine two modes of pollination biology. You will have the opportunity to design a flower and find an example of a similar flower from the Botany Greenhouse.

The details... You are a plant that has evolved to move your pollen in a very specialized way, effectively promoting outcrossing. Select TWO different pollen-moving vectors from the list below. For each example, *design a specialized flower* to attract/utilize the vector. Think about such things as flower size, shape, position, color, scent, nectar/pollen reward, presence or absence of floral structures, inflorescence structure, timing of anthesis, and any other specialized structures that may apply. Give a detailed description of your flower AND draw what your flower might look like (to the best of your ability). Be as complete and thorough as possible. Once you have an idea of the design and structure of your flower, try to find a similar example of this in the Botany Greenhouse (B2 level of Birge Hall, hours: M-F 8:00-4:00). Include the Species/Genus, common name, and Family of the plant. A warning - some plants in the greenhouse are not labeled, so you may need to a little more legwork with some. Note any similarities and differences between the flower that you designed and the example from the greenhouse.

Pollination vectors... select two different modes.

wind	water	beetle
bee	carrion fly	wasp
hummingbird	bat	butterfly
hawkmoth		

Fill out the back of this document and turn it in by the due date listed below. This assignment is worth ten points and is due in lecture on Friday, November 19th.

Pollination Biology

	Name
Vector #1	
Description and image:	
Similar example from Botany Green	house and notes:
Genus	common name
Family	-
Vector #2	
Description and image:	
Similar example from Botany Green	house and notes:
Genus	common name
Family	_