<u>Topic 13 – Angiosperms</u>

Reading: Chapter 8: Flowers, Fruits and Seeds (pp. 125-139) Chapter 23: Angiosperms (pp. 433-445, plus Figure 23.18 on pp. 446-447)

Hartley. 2012. Parksia 2: 6-7. @ http://herbarium.millersville.edu

I. Structures Unique to Angiosperms



























































Mimulus cardinalis and M. lewisii



Mimulus cardinalis: hummingbird pollinated



Mimulus lewisii: bumblebee pollinated

II. Pollination B. Bird Pollination



II. Pollination C. Bat Pollination





















2. Carrion flowers

Reward: Nothing.

Flower Form: Petals, inflorescence, or spathe mimics rotting flesh in color, texture, & odor.

Pollinator Behavior: Flies, beetles lay eggs on flower thinking it is larval food.

Research Underway: Dr. Denis Barabe' (Montreal Botanical Garden, Univ. of Montreal).







Fig. 1. A skunk-cabbage plant (Symplocarpus foetidus). Photo from the Public Domain. [This and other images are in color on the Web version of this article.]

a relatively constant, high temperature that may be optimal for its unseasonably early pollen and ovule development which, in turn, can determine



Fig. 2. A skunk-cabbage inflorescence. The spadix is concealed by the carrion-colored spathe. Photo © Sue Sweeney.

Eastern skunk-cabbage, Symplocarpus foetidus (Araceae), is a perennial forb native to eastern North America and is found in wet