0	2
WEEK 2: CONJUGATION & AROMATICITY	Recall (last week):
(chapter 13)	conjugated systems
Announcements: Labs Start This week!	-arrangement of Tr-bonds in a 1,3-fashian.
	Reactions: H
	H-Br Br 1,4-addn
	Hz PtDay (Section 12.6)
	Pre 1 B
	Diels-Alder
3 This week:	R ———
promatic Systems	Benzene = stable & not very reactive:
Planar, cyclic, fully conjugated	U-87
molecules having 4n+2 TT (3)	13 H-Br No RXn
where n= integer (0,1,2,3)	1 PtO2 Very Slow
ex: Benzene	
HT=TH = C646	RIR NO RXn.
N H	Diels-Alder
1) Planas	we are going to discuss why benzeno
2) Cyclic	is so stable (not just a conj. polyene
3) Fully conjugated 4n+2=6	this week
4) 6TT e-5 -> 4n=4	
(S)	Ecurrent Structural understanding
Structure of Benzene? C6H6, first isolated from whale blubber	of Dana ene
	# 1) Regular hexagon
Proposals: WRONG!	HITH 2) All C-C bond lengths H = 1.39 R
1) Sir James Dewar "Dewar" Bernjene	H 3) Each C → sp² hybridized
**************************************	m -tel-frank
2) Albert Ladenburg Wrong!	Resonance Depiction:
"Ladenburg Beriger 27	[27] A 2 [1] 6 3 4 5]
3) Friedrich Hekulé H 1.33Å	
cyclonexatriene Hall House bond (shorter)	Dbi bond character between all C's!
1 1 10 10 10 10 1	
(. 1.47A	
Milernating Single E dbl bonds	











