Business

Options for making up Dean's lectures:

- 1. Review past Dean's lectures
 - Sometimes available on web
- 2. Graduate Student Seminars
 - Thursdays, 4 pm, 254 CB
- Technical Seminars in Other Departments

 Must be approved by Dr. Fletcher
- 4. AiChE speakers not accepted for Dean's lecture credit

Business (cont.)

Professional Program Application – Due Friday!











		Fixed limi (dry.) matt bi	Fixed carbon limits (%) (dry, mineral- matter-free basis)		r matter s (%) nineral- tr-frei usis)	Calorific value limits (Btufb) (moiat mineral-matter- free basis)		
	Class Group	5	<	>		>	<	Agglomerating character
Ι.	Anthracitic							
	 Meta-anthracite: 	98		1.000	2		- 1	
	Anthracite	92	98	2	8		-	nonagglomerating
	 Semianthracite 	86	92	8.	14		- 1	
ш.	llituminous							
	 Low volatile bituminous coal 	78	86	34	22			
	Medium volatile bituminous c	wal 69	28	22	31			
	3. High volatile A bituminous co	sal —	6/9	34		14,000	in the second	commonly aggromerator
	 High volatile 8 bituminous co 	- 14				13,000	14,000	
	5. High volatile C bituminous co	val —	-	-		11,500	13,000)	
	Eshhituminaus					10,300	11,300	aggiomerating
	1. Subbituminous A coal					10.500	11.500 }	
	2 Sobbituminuus R coal	1.5				9.500	10.500	
	3 Subbituminous C coal			121	3.1	8,300	9.500	
IV.	Lignitic					abote		nonaggiomerating
	1. Lienite A	200		-	-	6.300	8.300	
	2. Lignite B	2	1	-	-		6.300	

Terminology

- · High heating value
 - Calculated using H₂O (liq) as product
- · Low heating value
 - Calculated using H₂O (gas) as product
- Heating value = $-\Delta H_c$

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10⁶ lb_m/hr of coal

6% excess air

25°C

- i.e., heating value is positive, but heat of reaction is negative
- Table B.1 lists the high heating value - Actually $\Delta H_{\rm c}$ corresponding to the high heating value

















