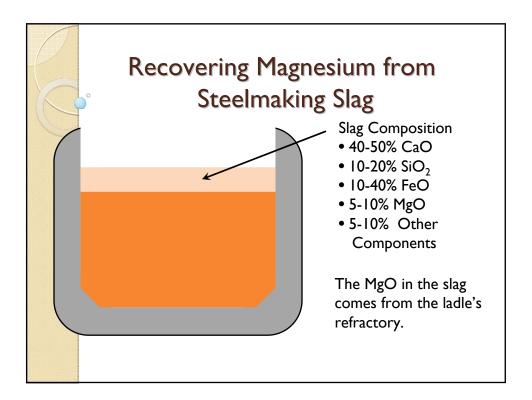
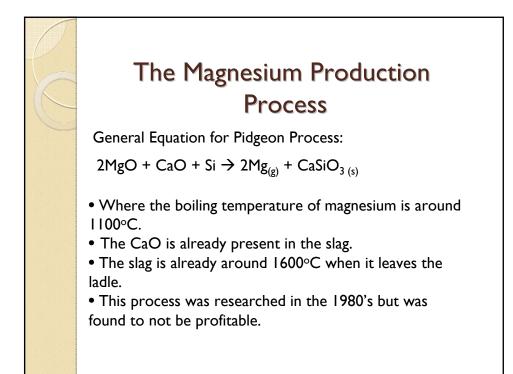
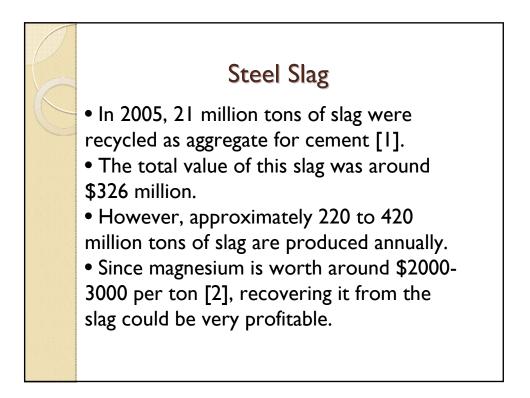
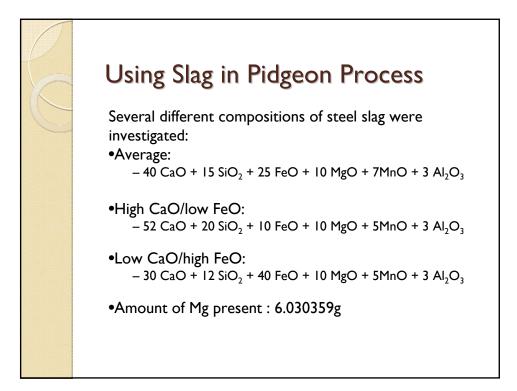
## <section-header><section-header>

Sebastian Humphrey 260235370 April 6<sup>th</sup>, 2009

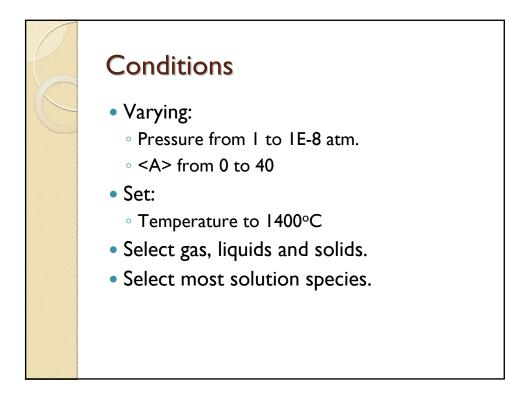






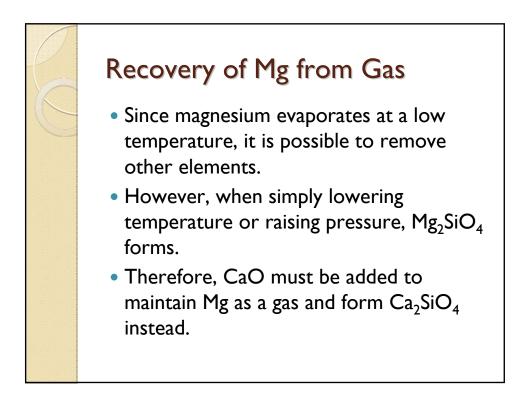


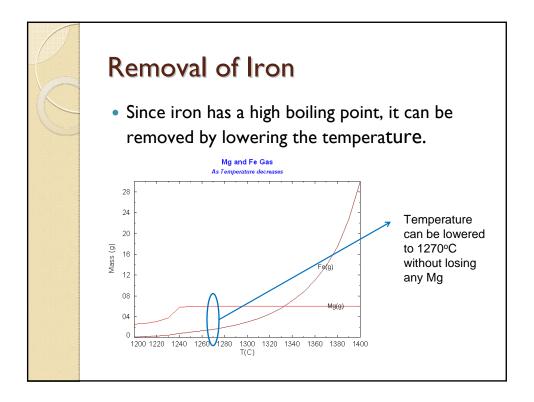
<b>7 Reactants - Equilib</b> File Edit Table Units				
	T(C) P(atm	) Energy(J) Mass(g) Vol(litre)	<u>III 🗣 </u>	<b>-</b>   🕅
1.7				
Mass(g)	Species CaO	Phase T(C)	P(total)** Stream#	Data
+ 15	Si02			
+ 25	Fe0			
+ 10	Mg0			
+ 3	AI203			
+ 7	MnO			
+ <a></a>	FeSi			
1.00	Ji coi	,	1 1	

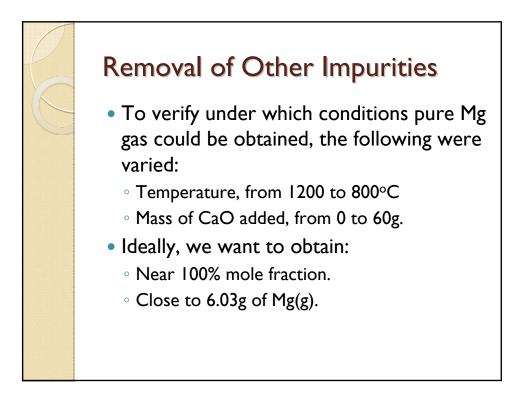


6	Results		
	Pressure	Mass of FeSi Required	% of Mg Produced as Gas
	IE-3	20	10.21
	I E-4	40	76.21
	1E-5	55	99.84
<	IE-6	55	99.84
	I E-7	55	99.84
	I E-8	50	99.63
		a	lighest pressure that llows for 100% of nagnesium to turn to

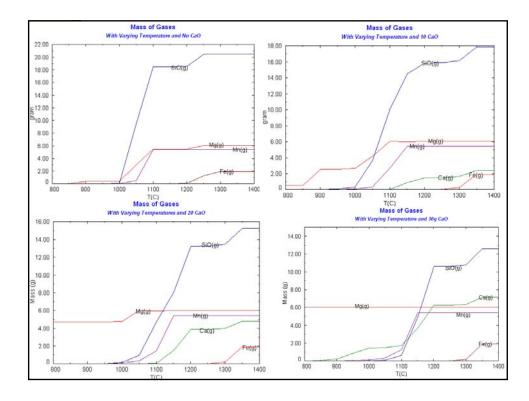
Gas Mole Fraction   Fe 0.43262   SiO 0.33640   Mg 0.14604   Mn 5.8171E-02   Ca 2.6613E-02   Al 1.6022E-05   Si 2.9753E-06	Gas Composition • The reaction at 14 addition of 55g of following gas:	00°C, IE-5 atm an
SiO 0.33640   Mg 0.14604   Mn 5.8171E-02   Ca 2.6613E-02   Al 1.6022E-05	Gas	Mole Fraction
Mg 0.14604   Mn 5.8171E-02   Ca 2.6613E-02   Al 1.6022E-05	Fe	0.43262
Mn 5.8171E-02   Ca 2.6613E-02   Al 1.6022E-05	SiO	0.33640
Ca 2.6613E-02 Al 1.6022E-05	Mg	0.14604
AI I.6022E-05	Mn	5.8171E-02
	Ca	2.6613E-02
Si 2.9753E-06	AI	1.6022E-05
	Si	2.9753E-06
FeO 3.0112E-07	FeO	3.0112E-07

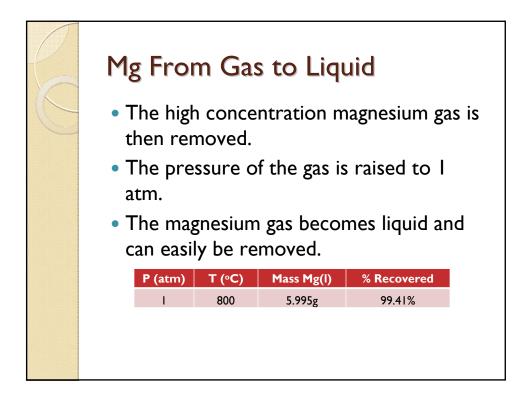




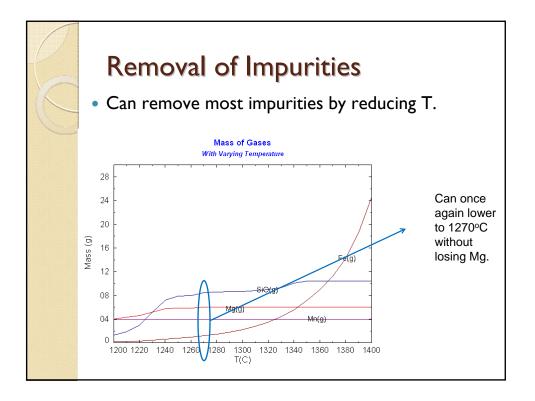


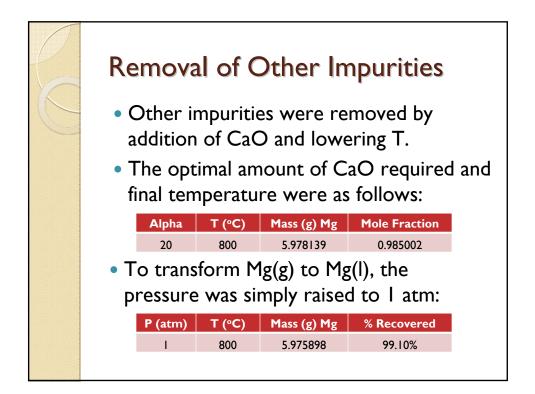
	Result	S		
K	T (°C)	CaO (g)	Mass (g) Mg	Mole Fraction
	800	15	3.4018839	0.99993129
	800	10	0.51276094	0.99993129
	800	25	5.7870963	0.99961878
	800	20	4.703946	0.99961878
	800	0	0	0.99956883
	800	5	0	0.99956883
	900	25	5.7866028	0.99886157
	900	20	4.7035467	0.99886157
<	800	30	6.0098927	0.99874548
	800	35	6.0095716	0.99874546
	800	40	6.0092506	0.99874545
	900	15	3.6238457	0.99865067
	900	10	2.5397845	0.99865067
	900	5	1.4558557	0.99848252





-	<b>Reactants - Equilib</b> Edit Table Units Data	a Search Help				
		T(C) P(atm)	Energy(J) Mass(g) V	'ol(litre)		
	Mass(g)	Species	Phase	TICI	P[total]**	Stream# Data
	52	CaO	Tildao	¥ [		
	• 20	Si02		-		1
	* 10	FeO		¥		1
	* 10	MgO		-		1
	+ 3	AI203		-		1
	+ 5	MnO		Ī		1
	+ <a></a>	FeSi				1
	15age 6.0 Compound ires 30g		Next >> n: 1/15 databases	duce		iitial Conditions





Mass(g) Species Phase T(C) P(to)	
	tal)** Stream# Data
30 Ca0	1 
+ 12 \$102	
+ 10 Ma0	
* 3 Al203 V	
+ (A) FeSi	

