FLUIDIZATION SEMINAR AND WORKSHOP SPRING, TEXAS NOVEMBER 14TH-17TH, 2023

(ALL TIMES CDT)

TUESDAY					
7:30 AM	BREAKFAST (F	BREAKFAST (PROVIDED)			
8:00 AM	REGISTRATION				
8:15 AM	INTRODUCTION TO PSRI AND ITS TECHNICAL PROGRAMS				
8:30 AM	A. INTRO	A. INTRODUCTION AND OVERVIEW			
	1.	INTRODUCTION, TERMINOLOGY, AND PARTICULATE PROPERTIES			
	2.	FLUIDIZATION REGIMES AND TRANSITIONS			
10:30 AM	BREAK				
10:45 AM	3.	HYDRODYNAMICS OF FLUIDIZED BEDS			
		■ EFFECTS OF TEMPERATURE AND PRESSURE			
12:00 PM	LUNCH (PROV	UNCH (PROVIDED)			
12:45 PM	4.	GAS AND SOLIDS MIXING			
2:45 PM	BREAK				
3:00 PM	5.	GAS SOLIDS CONTACTING, REACTION, MODELLING AND SCALE-UP			
	6.	HEAT TRANSFER			
5:00 PM	ADJOURN				

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WEDNESDAY

7:30 AM	BREAK	BREAKFAST (PROVIDED)		
8:00 AM	В.	OVERVIEW OF INDUSTRIAL APPLICATIONS		
9:00 AM	C.	GRIDS – GAS DISTRIBUTORS		
		 INTRODUCTION TO GRIDS (PRESSURE DROP ACROSS GRID) DESIGN OF VARIOUS TYPES OF GRIDS PERFORATED PLATE PIPE/SPARGER EFFECT OF SHROUDS 		
10:00 AM	BREAK	(
10:15 AM	C.	GRIDS – GAS DISTRIBUTORS (CONTINUED)		
		 JET PENETRATION EFFECTS OF TEMPERATURE AND PRESSURE 		
11:30 AM	D.	WORKSHOP ON GRID DESIGN		
12:00 PM	LUNCI	CH (PROVIDED)		
1:00 PM	E.	PARTICLE ENTRAINMENT & ELUTRIATION		
		 INTRODUCTION MECHANISMS OF EJECTION INTO FREEBOARD SOLID FLUX PROFILE AND TDH ENTRAINMENT CORRELATION FOR BUBBLING & TURBULENT BEDS 		
2:00 PM	BREAK	NK		
2:15 PM	E.	PARTICLE ENTRAINMENT & ELUTRIATION (CONTINUED)		
		 EFFECTS OF GEOMETRY ENTRAINMENT FROM RISERS EFFECTS OF TEMPERATURE AND PRESSURE 		
2:45 PM	F.	WORKSHOP ON ENTRAINMENT		
		 FCC/POLYETHYLENE EXAMPLES 		
3:15 PM	G.	CYCLONE DESIGN		
		 PRINCIPLE OF OPERATION NON-UNIFORM CYCLONES 		
5:00 PM	ADJOU	JRN		

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THURSDAY

7:30 AM	BREAKFAST (PROVIDED)		
8:00 AM	G.	CYCLONE DESIGN (CONTINUED)	
		 DIPLEG PRESSURE BALANCE FLAPPER & TRICKLE VALVES EFFECT OF DIFFERENT CONFIGURATIONS EFFECTS OF TEMPERATURE AND PRESSURE DESIGN PROCEDURE COLLECTION EFFICIENCY 	
9:30 AM	BREAK		
9:45 AM	н.	WORKSHOP ON CYCLONES	
		CYCLONE DESIGN CALCULATIONSCYCLONE VIDEOS	
10:30 AM	L	STANDPIPES	
		 THEORY OF OPERATION TYPES OF STANDPIPES AERATION EFFECTS STANDPIPE CAPACITY ANGLED STANDPIPES 	
12:00 PM	LUNCH (PROVIDED)		
1:00 PM	MODE	LING EXPANDED WITH CPFD SOFTWARE	
2:15 PM	BREAK		
2:30 PM	I.	STANDPIPES (CONTINUED)	
		STRIPPINGNON-MECHANICAL VALVESSTANDPIPE CALCULATIONS	
5:00 PM	ADJOU	RN	

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FRIDAY				
7:30 AM	BREAKFAST (PROVIDED)	FAST (PROVIDED)		
8:00 AM	J. DILUTE-PHASE PNEUMATIC CONVEYING AND CIRCULATING FLUIDIZED BED			
	SLIP VELOCITIES	CULATIONS OKING, SALTATION, AND CIRCULATING FLUIDIZED		
10:00 AM	BREAK			
10:15 AM	K. DENSE-PHASE PNEUMAT	IC CONVEYING		
	PACKED BED, FLUIDISLUG FLOWSELECTION OF EQUIF			
12:00 PM	LUNCH (PROVIDED)	NCH (PROVIDED)		
1:00 PM	L. PARTICLE ATTRITION			
	TYPES OF ATTRITIONATTRITION TESTING			
2:00 PM	M. MODELING GRANULAR-F	LUID SYSTEMS		
	TYPES OF MODELSCOMMON PITFALLS			
2:45 PM	BREAK			
3:00 PM	M. MODELING GRANULAR-F	LUID SYSTEMS (CONTINUED)		
4:00 PM	CONCLUSION OF SEMINAR	CONCLUSION OF SEMINAR		

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