

DETAILED PROGRAM

Designing and Troubleshooting of Pneumatic Conveying Systems for Fly Ash Handling in Thermal Power Plants

10-11th April, 2015, Department of Mechanical Engineering, Thapar University, Patiala

Experts:

Dr. Peter Wypych, University of Wollongong, Australia

Dr. S.S.Mallick, Thapar University, India

Dr. Renhu Pan, Fujian Longking Co., China

Day 1, 10th April 2015, Friday

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8.30-9.00	Registration	
9.00-9.30	Inauguration	
9.30-11.15	Session 1: Mechanics of different modes of pneumatic conveying of fly ash (dense/dilute-phase), product characterization and conveyability	Peter Wypych
11.15-11.30	Morning tea	
11.30-13.15	Session 2: Pneumatic conveying characteristics and its importance in designing systems	Peter Wypych and S.S.Mallick
13.15-14.00	Lunch	
14.00-15.45	Session 3: Selection, sizing and optimization of blow tank (blow vessel) feeders	Renhu Pan and Peter Wypych
15.45-16.00	Afternoon tea	
16.00-17.45	Session 4: Predicting pipeline blockage condition, pipeline step-up criteria, reliable air flow rate requirement and total pipeline pressure drop – modelling and scale-up methods	S.S.Mallick
16.45-18.15	Session 5: Sizing of important components – compressors, vacuum pumps, bag filters etc, flow properties of ash for hoppers and silo design	Peter Wypych and Renhu Pan
20.00-22.00	Course dinner	

Day 2, 11th April 2015, Saturday

8.55-9.00	Announcements	S.S.Mallick
9.00-10.45	Session 6 : Troubleshooting of fly ash conveying systems (I) – case studies	Peter Wypych
10.45-11.00	Morning Tea	
11.00-12.45	Session 7 : Troubleshooting of fly ash conveying systems (II) – case studies	Renhu Pan
12.45-13.30	Lunch	
13.30-14.15	Session 8 : Latest Research and Developments in pneumatic transport of fly ash	PhD students: Gautam Setia and Anu Mittal
14.15-15.00	Laboratory visit	
15.00-16.45	Session 9 : User problems - all the panel of experts will take on questions from delegates regarding the actual problems faced in plants and troubleshooting options will be suggested	Peter Wypych S.S.Mallick Renhu Pan
16.45-17.00	Conclusion	