

# 14<sup>th</sup> International Freight Pipeline Society Symposium

28 June – 1 July, Madrid (Spain)

## Day 1, Wednesday 29 June

08:00 08:45	Registration	
	<b>Welcome and Opening Session (Chair: Álvaro Ramírez)</b>	
08:45 10:15	An approach to functional design to pneumatic conveying of solids in pipes	<i>Rizk, F.</i>
10:15 10:50	<b>Coffee Break</b>	
	<b>Session I (Chair: Farid Rizk)</b>	
10:50 11:10	Application of the kinetic theory to predict the pressure loss in slug flow pneumatic conveying	<i>Lecreps-Prigge, I., Sommer, K.</i>
11:10 11:30	Attrition of particles in bends of pneumatic conveying systems	<i>Santo, N., Kalman, H.</i>
11:30 11:50	Friction force on vertical plug flow	<i>Rabinovich, E., Freund, N., Kalman, H., Klinzing G.E.</i>
11:50 12:10	Frictional force measurement in dense phase pneumatic conveying	<i>Pahk, J. B., Vasquez, N., Jacob, K. V., Klinzing, G.E.</i>
12:10 12:30	Comparison of CFD modelling of a fly ash powder with different pneumatic conveying bypass pipeline configurations	<i>Wang, Y., Williams, K., Jones, M.G., Chen, B.</i>
12:30 14:00	<b>Lunch</b>	
	<b>Session II (Chair: Pavel Vlasak)</b>	
14:10 14:30	Transitional characteristics of pulsatile pipe flows as a control and modelling tool for pneumatic transport of solid particles	<i>Çarpınlioğlu, M.Ö., Özahi, E.</i>
14:30 14:50	Periodic flow as an alternative for pneumatic conveying pipelines (Presentation of an experimental test case)	<i>Özahi, E., Çarpınlioğlu, M. Ö.</i>
14:50 15:10	Experimental investigation of low velocity pneumatic transport of fly ash in bypass system	<i>Jones, M.G., Chen, B., Williams, K.</i>
15:10 15:30	Generalized flow regime diagram for vertical pneumatic systems	<i>Rabinovich, E., Kalman, H.</i>
15:30 15:50	Pneumatic conveying using inclined pipelines at the Universidad Técnica Federico Santa María	<i>Cabrejos, F., Ormeño, J.L., Salgado, J.</i>
15:50 16:20	<b>Coffee Break</b>	
	<b>Session III (Mark Jones)</b>	
16:20 16:40	Decomposition and statistical analysis of bulk density levels of dense phase flyash powder flow within a pneumatic conveyor	<i>Williams, K., Chen, W., Jones, M.G.</i>
16:40 17:00	Spirally welded pipeline: Solution for long distance oil and petrol supplies	<i>Castañón, G., Pinto, F., Gasulla, N.</i>
17:00 17:20	The potential influence of pressure on the capability and performance long distance pneumatic conveying pipelines	<i>Mills, D.</i>
17:20 17:40	Modelling of a measurement system for measurement of small particle impact forces	<i>Cowell, A., Pugh J.R., McGlinchey, D., Ibrahim, M.A.A.</i>
17:40 18:00	Diagnostics and technique for the analysis pipelines transportation	<i>Makharadze, L., Gavasheli, L.</i>
21:00 23:00	<b>Symposium Banquet</b>	

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## Day 2, Thursday 30 June

08:00 09:00	Registration	
	<b>Opening Session (Chair: Álvaro Ramírez)</b>	
09:00 10:30	A stationary pneumatic refuse collection system	<i>Reyes, R.</i>
10:30 11:10	<b>Coffee Break</b>	
	<b>Session I (George Klinzing)</b>	
11:10 11:30	A numerical procedure for modelling the nonlinear effects of buoyancy forces on an underwater pipeline during launching operations	<i>Mosquera, J.C., Plaza, L., Sanmartín, A.</i>
11:30 11:50	Flow behaviour and structure of coarse-grained slurries in pipe	<i>Vlasak, P., Kysela, B., Chara, Z.</i>
11:50 12:10	First experimental experience with new laboratory slurry loop	<i>Krupička, J., Matoušek, V.</i>
12:10 12:30	Reexamine of Geldart's classification for fluidized beds based on height to bed diameter ratio	<i>Shaul, S., Rabinovich, E., Kalman, H.</i>
12:30 14:00	<b>Lunch</b>	
	<b>Session II (Chair: Haim Kalman)</b>	
14:10 14:30	Design and operation guidelines in pressure water irrigation networks for flushing sediment load bed	<i>Sánchez, R., Juana, L., Rodríguez, L., Castañón, G., Gil, M., Laguna, F., Losada, A.</i>
14:30 14:50	Liquid density influence on its carrying capacity	<i>Chuluun, E, Brodt, A.</i>
14:50 15:10	The effect of the flow regimes on mathematical expression of pressure gradient in the low density spherical capsule train flow	<i>Ulusarlan, D.</i>
15:10 15:30	Radiometric measurements of density distribution of mixture flow in horizontal pipeline	<i>Sobota, J., Vlasak, P., Malczewska, B., Stozik, G.</i>
15:30 16:00	<b>Coffee Break</b>	
	<b>Session III (Chair: Francisco Ayuga)</b>	
16:00 16:20	The pumping characteristics of fly ash slurry in a pipeline	<i>Bunn, T.F., Jones, M.G., Wheeler, C.A.</i>
16:20 16:40	Non-destructive test techniques used for pneumatically conveyed granular powder	<i>Yilmaz, F, Demirhan, N., Gundogdu, M.Y., Çarpınlioğlu, M.Ö.</i>
16:40 17:00	Common causes of failure of pneumatic distributors in high precision pneumatic seeders: Proposals towards predictive maintenance	<i>Barreiro, P., Diezma, B., Moya-González A., Garrido-Izard, M., Valero, C.</i>
17:00 17:20	Knowledge pipeline in freight pipeline industry: Competence-based model for open innovation	<i>Martín, I., Criado, M., Quevedo, P., Pérez, C., Solana, J.M., Fernández P.</i>
17:30 17:45	<b>Closing Ceremony</b>	
17:45 19:00	<b>Farewell Reception</b>	

