

**18th International Conf. on Transport and Sedimentation of Solid Particles
Prague, September 11 – 15, 2017**

Conference Programme

September 11, 2017 – Monday

8.30	10.00	Registration	
10.00	10.15	Opening session – Chair: J. Sobota, P. Vlasak	
		Technical Session I – Chair: P. Vlasak	Hydraulic Conveying I
10.15	10.40	<u>V. Matoušek</u> , R. Visintainer, J. Furlan, G. McCall II & A. Sellgren: Deposition Limit Velocity: Effect of Particle Size Distribution	No. 52
10.40	11.05	<u>E. de Hoog</u> , M. in 't Veld, J. van Wijk & A. Talmon: An Experimental Study Into Flow Assurance of Coarse Inclined Slurries	No. 15
11.05	11.30	<u>J.M. van Wijk</u> : The Influence of Nodule Degradation on The Vertical Hydraulic Transport of Manganese Nodules	No. 17
11.45	12.45	Lunch	
		Technical Session II – Chair: A. Talmon	Pneu-Hydro Conveying
13.00	13.25	<u>H. Kalman</u> , N. M. Tripathi, O. G. Gabrieli & D. Portnikov: Phase Diagram for Pneumatic and Hydraulic Conveying	No. 16
13.25	13.50	<u>D. Portnikov</u> , N. Santo & H. Kalman: Breakage Of Particles In Bends Of Pneumatic and Hydraulic Conveying	No. 23
13.50	14.15	<u>N. Santo</u> , D. Portnikov & H. Kalman: Experimental Study on Particle Velocity in Horizontal Pneumatic and Hydraulic Conveying Systems	No. 56
14.15	14.40	<u>Ch. Ratnayake</u> : Pneumatic Conveying of Wheat Flour: System Optimisation Through Pilot Testing	No. 70
14.40	15.10	Coffee break	
		Technical Session III – Chair: V. Matousek	Hydraulic Conveying II
15.10	15.35	<u>H. Ilgner</u> : Non-Invasive Detection Of Sedimentation and Its Removal in Industrial Pipelines	No. 72
15.35	16.00	<u>E. Bournaski</u> , V. Berman & S. Kril: Experimental and Theoretical Results of Pipeline Slurry Transport in Bulgarian Mining Industry	No. 68
16.00	16.25	<u>S. Czaban</u> , M. Gruszczyński & P. Tymków: The Measuring Field System of Fine Tailings Flow During The Dredging Vessel Operation	No. 60
16.25	16.50	<u>N. Kumar</u> & D.R. Kaushal: Transportation of Highly Concentrated Commercial Slurries Through Horizontal Pipeline	No. 33
17.30	19.30	Welcome Reception – Restaurant, Novotného lávka 5, Prague 1	

September 12, 2017 – Tuesday

8.00	<i>Registration</i>		
		Technical Session IV – Chair: J. Sobota	Hydraulic Conveying III
8.20	8.45	S. A. Miedema: The Influence of Local Hindered Settling on The Concentration Distribution in Slurry Transport	No. 7
8.45	9.10	F. Leuthe, N. Eisenhauer, B. Hofmann, M. Maier & K. Roth: The Movement of A Dune of Non-Uniform Grain Size in A Circular Pipe Flow	No. 34
9.10	9.35	P. Vlasák, Z. Chára, J. Konfršt & B. Kysela: Flow of Heterogeneous Slurry in Horizontal and Inclined Pipes	No. 55
9.35	10.00	H. P. Singh, S. Pandey & D.R. Kaushal: A New Correlation for Particle Diffusivity in Slurry Flow Through Pipeline	No. 66
10.00	10.30	Coffee break	
		Technical Session V – Chair: N. Heywood	Rheology I
10.30	10.55	K. Kabengele, A. Sutherland & V. Fester: Effect of Coarse Solids on Non-Newtonian Settling Slurry Flow Regime Transition: Using Pressure Gradients and Electrical Tomography	No. 69
10.55	11.20	M. Kesely & V. Matoušek: Laboratory Testing of Pipe Flows of Bimodal Complex Slurries	No. 38
11.20	11.45	R. Luo, J. Xia, B. Cao & B. Malczewska: Influence of Concentration and Additives on Rheological Properties of Coal Water Slurry	No. 73
11.45	12.45	Lunch	
		Technical Session VI – Chair: H. Kalman	Separation & Wear
13.00	13.25	N. R. Sarker, L. Zhang, D. E. S. Breakey, B. A. Fleck & R. S. Sanders: Laboratory-Scale Erosive Wear Measurements Conducted With A Toroid Wear Tester (TWT)	No. 62
13.25	13.50	A. Bartosik & T. Wojtyniak: The Measurements of Frictional Losses in a Slotted Sieve	No. 46
13.50	14.15	B. Kysela, J. Konfršt, Z. Chára, R. Šulc & P. Dítl: In-Situ Measurement of Particle Size Distribution in an Agitated Vessel	No. 65
14.15	14.40	T. Senfter, M. Pillei, M. Berger, A. Bockreis, W. Rauch & M. Kraxner: Hydrocyclone Optimization for The Removal Of Impurities in Biowaste Co-Digestion Processes	No. 51
14.40	15.10	Coffee break	
		Technical Session VII – Chair: R. Haldenwang	River-Channel Flow I
15.10	15.35	J.K. Vonkeman, G.R. Basson & G.J.F. Smit: Hydro-Morphodynamic Modelling of Local Bridge Pier Scour in Alluvial Beds	No. 18
15.35	16.00	M. Rinas, J. Traenckner: Determination of Particle Transport Characteristics From Sewer Systems	No. 32
16.00	16.25	M. J. S. Safari & M. Mohammadi: A General Self-Cleansing Model For Drainage System Design	No. 5
16.25	16.50	A. Strużyński, O. Pylypovych, J. Florek, A. Myhnovych: Disturbance of Fluvial Processes in The Lower Run of Yablunka River	No. 71
17.00	18.30	Conference Committee meeting	

September 13, 2017 – Wednesday

8.15 19.00 **Technical and Cultural Tour**

September 14, 2017 – Thursday

8.00	Registration			
	Technical Session VIII – Chair: A. Bartosik		Sedimentation	
8.20	8.45	<u>J. Goeree</u> , G. Keetels & C. van Rhee: Particle Settling Using The Immersed Boundary Method		No. 8
8.45	9.10	C. van Rhee: Simulation of The Settling of Solids in a Non-Newtonian Fluid		No. 63
9.10	9.35	<u>L. Sethuraman</u> , M. Rudman, S. Gopalakrishnan, R. Bhardwaj, A. Chryss & D. Stephens: Predicting Particle Settling Rate in a Sheared Mining Slurry		No. 27
9.35	10.00	<u>K. Cronin</u> & C. E. Comerlato: Dispersion in Residence Time of Particles With Poly-Dispersed Size Falling Through a Liquid		No. 1
10.00	10.30	Coffee break		
	Technical Session IX – Chair: T. Jones		Rheology II	
10.30	10.55	<u>R. Haldenwang</u> , V. Fester & R. Kotzé: Wastewater Sludge Pipeline Predictions Using Conventional Viscometry and Ultrasound Based Rheometry		No. 30
10.55	11.20	<u>V. Havlik</u> : Engineering Design of Non-Newtonian Homogeneous Slurries – Theory and Practice		No. 28
11.20	11.45	P. K. Senapati, <u>S. Senapati</u> & J. K. Pothal: Effect Of Particle Size Distribution on Rheology of High Concentration Limestone–Water Slurry for Economic Pipeline Transportation		No. 12
11.45	12.45	Lunch		
	Technical Session X – Chair: A. Sellgren		Pumps	
13.00	13.25	<u>R. Visintainer</u> , A. Sellgren, J. Furlan & G. McCall: Centrifugal Pump Performance Deratings for a Broadly graded (4-component) slurry		No. 47
13.25	13.50	<u>K. Slager</u> : The Relation Between Dredge Pump Ball Passage, Slurry Properties and The Probability of Clogging		No. 37
13.50	14.15	<u>P. Mosler</u> & J. Melichar: Results of Experimental Measurements and Calculations of Pressure Losses in Hd-Pe Pipes		No. 44
14.15	14.40	<u>N. I. Heywood</u> , P. Ioannou, J. Garcia, D. Hevia & N. J. Alderman: Effect of Particle Porosity on Pump Head Requirements for Phosphate Ore Slurry Distribution Pipelines at The Jorf Lasfar Terminal Facilities in Morocco		No. 22
14.40	15.10	Coffee break		
	Technical Session XI – Chair: V. Havlik		Miscellaneous	
15.10	15.35	<u>T. Yehuda</u> & H. Kalman: Modifying Geldart Classification for Various Cohesion Forces		No. 57
15.35	16.00	<u>P. Marek</u> & P. Martiňák: Water Powered Piston Slurry Pump		No. 64
16.00	16.25	<u>I. Dreiseitl</u> : About Geotechnical Properties of The Deep Seabed Polymetallic Nodules		No. 26
16.25	16.50	V. Alexandrov & <u>M. Vasilyeva</u> : Estimation of Efficiency of Hydrotransport Pipelines Polyurethane Coating as Compared to Steel Pipelines		No. 10
20.00	23.00	Symposium Dinner		

September 15, 2017 – Friday

		Technical Session XII – Chair: S. A. Miedema	Modelling
8.20	8.45	<u>Š. Zrostlík</u> & V. Matoušek: Kinetic Theory Based Approach to Modelling of Segregation in Intense Bimodal Bed Load Transport	No. 39
8.45	9.10	<u>T. F. Jones</u> : A Solid-Body Model for Swirling Flows	No. 54
9.10	9.35	<u>B. J. Nieuwboer</u> , G. H. Keetels & C. van Rhee: Flow Velocities in an Axi-Symmetrical Rotating Cutter Suction Head	No. 61
9.35	10.05	Coffee break	
		Technical Session XIII – Chair: S. Sanders	River-Channel Flow II
10.05	10.30	<u>A. Talmon</u> : Channel Width Calculation For Tailings Beaching	No. 40
10.30	10.55	<u>G. H. Keetels</u> : Global Stability of Concentration Profiles in Uniform Sediment-Laden Channel Flow	No. 31
10.55	11.20	<u>G. Gavardashvili</u> : Forecasting the Suspended Solid Sediment Transported in the Headrace of Enguri Dam	No. 24
11.20	11.40	Symposium Closing – Chair: J. Sobota, P. Vlasak	
11.45	12.45	Lunch	