

## Programme overview

### Sunday 11 September

19:00 - 21:30	Welcome reception	Oxford University Museum of Natural History
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### Monday 12 September

08:30 - 09:30	Registration	
09:30 - 10:00	Welcome	Lecture theatre 1
10:00 - 11:00	Keynote presentation	Lecture theatre 1
11:00 - 11:30	Refreshments	
11:30 - 12:50	Technical sessions	Lecture theatre 1: Erosion testing (1) Lecture theatre 2: Pipeline scour (1) Lecture theatre 3: Scour protection
12:50 - 14:00	Lunch	
14:00 - 15:20	Technical sessions	Lecture theatre 1: Internal erosion (1) Lecture theatre 2: Pipeline scour (2) Lecture theatre 3: River and estuarine erosion (1)
15:20 - 16:00	Refreshments	
16:00 - 17:20	Technical sessions	Lecture theatre 1: Propeller / jet scour Lecture theatre 2: Filter design Lecture theatre 3: Coastal erosion

### Tuesday 13 September

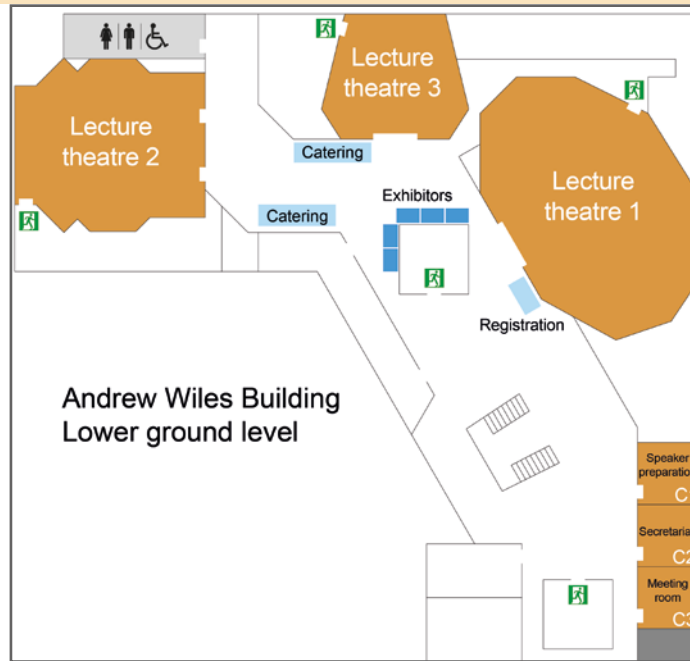
09:00 - 09:30	Welcome	Lecture theatre 1
09:30 - 10:30	Keynote presentation	Lecture theatre 1
10:30 - 11:00	Refreshments	
11:00 - 13:00	Technical sessions	Lecture theatre 1: Bridge scour (1) Lecture theatre 2: River and estuarine erosion (2) Lecture theatre 3: Scour management (1)
13:00 - 14:00	Lunch	
14:15 - 18:00	Technical visit	Meet in the foyer

### Wednesday 14 September

09:00 - 09:10	Welcome	Lecture theatre 1
09:10 - 10:10	Keynote presentation	Lecture theatre 1
10:10 - 10:40	Refreshments	
10:40 - 13:00	Technical sessions	Lecture theatre 1: Erosion testing (2) Lecture theatre 2: Scour at offshore structures Lecture theatre 3: Internal erosion (2)
13:00 - 14:00	Lunch	
14:00 - 15:40	Technical sessions	Lecture theatre 1: Internal erosion (3) Lecture theatre 2: Bridge scour (2) Lecture theatre 3: Sediment erosion and modelling (1)
15:40 - 16:10	Refreshments	
16:10 - 17:50	Technical sessions	Lecture theatre 1: Internal erosion (4) Lecture theatre 2: Sediment erosion and modelling (2) Lecture theatre 3: Scour at structures
19:30 - 23:00	Conference dinner	Keble College, Oxford University

### Thursday 15 September

09:00 - 09:10	Welcome	Lecture theatre 1
09:10 - 10:10	Keynote presentation	Lecture theatre 1
10:10 - 10:40	Refreshments	
10:40 - 13:00	Technical sessions	Lecture theatre 1: Coastal and offshore scour Lecture theatre 2: Internal erosion (5) Lecture theatre 3: Scour management (2)
13:00 - 14:00	Lunch	
14:00 - 15:20	Technical sessions	Lecture theatre 1: Sediment erosion and modelling (3) Lecture theatre 2: Internal erosion (6) Lecture theatre 3: Sediment erosion and modelling (4)
15:40 - 16:00	Closing thoughts	Lecture theatre 1
16:00 - 16:30	Refreshments	



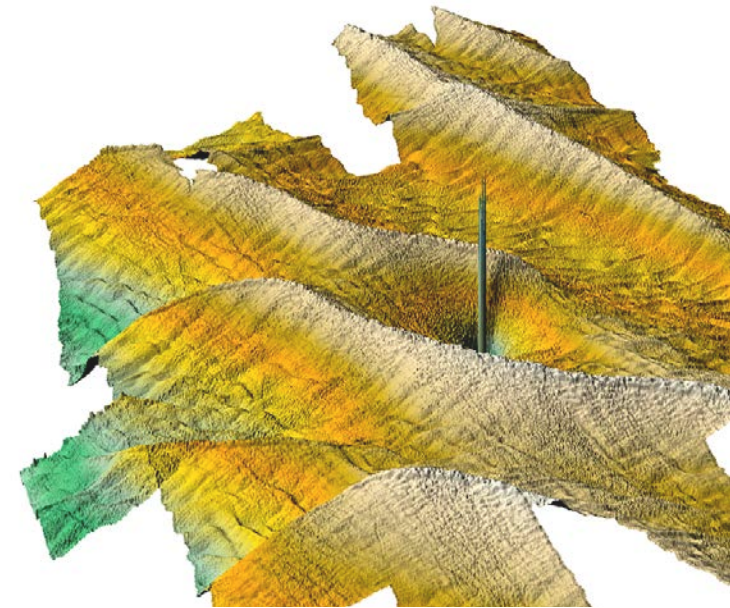
ICSE|2016



## Programme

8<sup>th</sup> International Conference  
on Scour and Erosion

12-15 September 2016  
Oxford, UK



Thank you to our exhibitors:



# Monday 12 September 2016

08:30	Registration								
09:30	Welcome ( <i>Lecture theatre 1</i> )								
10:00	Keynote presentation ( <i>Lecture theatre 1</i> ) - Professor Subhasish Dey "Hydrodynamics of sediment transport: grain scale to continuum scale, Subhasish Dey and Sk Zeeshan Ali"								
11:00	Refreshments			Refreshments			Refreshments		
11:30	<b>Lecture theatre 1</b>	Erosion testing (1)	Chair: Erik Bollaert	<b>Lecture theatre 2</b>	Pipeline scour (1)	Chair: Tim Raaijmakers	<b>Lecture theatre 3</b>	Scour protection	Chair: Michael Heibaum
11:30	Towards quantifying rate of scour using the Erodibility Index Method: case study. <i>A.J. Rock, G.W. Annandale and J.D. Higgins</i>			Time scales for scour below pipelines and around vertical piles due to nonlinear random waves. <i>D. Myrhaug, M.C. Ong and S. Dyrseth</i>			Bridge scour protection. <i>M. Hawkswood and M. King</i>		
11:50	A field erodibility testing device for scour evaluation of bridges. <i>M. Zinner, T. Meyer, H. Shan, J. Shen, B. Bergendahl and K. Kerenyi</i>			Local scour around two subsea pipelines in an oscillatory flow. <i>M. Zhao, M. Liu, L. Cheng, H. An, S. Draper and L. Lu</i>			A computational approach to the study of the stability of pier riprap at the Middle Fork Feather River. <i>O. Suaznabar, J. Shen, N. Tsou, C. Bojanowski, S. Lottes, K. Flora, F. Jalinoos and K. Kerenyi</i>		
12:10	Modification of an erodibility category limit for the pocket erodimeter. <i>R. Rahimnejad and P.S.K. Ooi</i>			Scour below marine pipelines due to random waves on mild slopes. <i>M.C. Ong, P. Fu and D. Myrhaug</i>			Scour protection design in highly morphodynamic environments. <i>H.J. Riezebos, T.C. Raaijmakers, A. Tönnies-Lohmann, S. Waßmuth and P.J.M. Van Steijn</i>		
12:30	Calibration of erodibility testing devices for bridge design support. <i>H. Shan, O. Wiblishauser, C. Lin, J. Shen and K. Kerenyi</i>			Investigation of scour onset under seabed pipelines with geometric irregularities. <i>T. Griffiths, S. Draper, W. Sun, D. White, L. Cheng and H. An</i>			Developments of low cost riverbank protection in Bangladesh. <i>K. Oberhagemann and A.M. Aminul Haque</i>		
12:50	Lunch			Lunch			Lunch		
14:00	<b>Lecture theatre 1</b>	Internal erosion (1)	Chair: John Rice	<b>Lecture theatre 2</b>	Pipeline scour (2)	Chair: Dag Myrhaug	<b>Lecture theatre 3</b>	River and estuarine erosion (1)	Chair: Édouard Durand
14:00	Suffusion susceptibility characterization by triaxial erodimeter and statistical analysis. <i>V.T. Le, D. Marot, A. Rochim, F. Bendahmane and H.H. Nguyen</i>			Propagation modes of 3D scour below a submarine pipeline in oblique steady currents and waves. <i>Z.P. Zang, G.Q. Tang and L. Cheng</i>			Scour hole development in river beds with mixed sand-clay-peat stratigraphy. <i>Y. Huismans, G. van Velzen, T.S.D. O'Mahoney, G.J.C.M. Hoffmans and A.P. Wiersma</i>		
14:20	Numerical investigation of the particle skeleton of widely graded soils prone to suffusion. <i>P. Winkler, H. Jentsch, M.R. Salehi Sadaghiani and K.J. Witt</i>			Exploring the bifurcation between sedimentation versus scour onset below pipelines in unidirectional currents. <i>T. Griffiths, S. Draper, W. Sun, D. White, L. Cheng and H. An</i>			Overflow erosion on mixed kaolin-sand embankments. <i>F. Lachaussée, D. Pham Van Bang, V. Vidal, C. Chevalier, O. Ndoye, F. Szymkiewicz, C. Minatchy, F. Martineau and K. Watanabe</i>		
14:40	Interpreting filtration-based suffusion criteria using micro-Computed Tomography and laboratory filter tests. <i>H.F. Taylor, C. O'Sullivan and W.W. Sim</i>			Numerical simulation of scour below pipelines using flexible mesh methods. <i>J.M. Nunez Rattia, J.R. Percival, B. Yeager, S. Neethling and M.D. Piggot</i>			Numerical simulations of bedrock erosion around the bridge. <i>C.T. Liao, K.C. Yeh, K.W. Li, R.K. Jhong and K.W. Wu</i>		
15:00	Experimental investigations of critical hydraulic gradients for a soil prone to suffusion. <i>M.R. Salehi Sadaghiani, K.J. Witt and B. Odenwald</i>			Scour patterns below pipelines and scour hole expansion rate. <i>Y. Zhu, L. Xie and X. Liang</i>			Local mechanisms of cohesive soil erosion. <i>F. Brunier-Coulin, P. Cuellar and P. Phillippe</i>		
15:20	Refreshments			Refreshments			Refreshments		
16:00	<b>Lecture theatre 1</b>	Propeller / jet scour	Chair: Andreas Roulund	<b>Lecture theatre 2</b>	Filter design	Chair: Didier Marot	<b>Lecture theatre 3</b>	Coastal erosion	Chair: James Sutherland
16:00	The stability of a block mattress in a propeller induced jet. <i>G. van Velzen, M.P.C. de Jong, J.P. Quataert, and H.J. Verheij</i>			The importance of permeability in granular filter design and control. <i>F. Delgado-Ramos, D. Escudero-Merino and C. Olalla</i>			Sediment transport and shoreline erosion induced by bichromatic waves with varying group period. <i>J.M. Alsina, J. van der Zanden, J.S. Ribberink and I. Cáceres</i>		
16:20	A full scale propeller wash erosion test on heterogeneous cohesive material. <i>Y. Karelle, P. Sharpe, G.M. Pizzo, P. Haerens and V. Albanese</i>			Stability of wide-graded granular filters under oscillatory flow. <i>D. Schürenkamp H. Oumeraci and J. Kayser</i>			Thermomechanical erosion modelling of Baydaratskaya Bay, Russia with COSMOS. <i>S.G. Pearson, R. Lubbad, T.M.H. Le and R.B. Naim</i>		
16:40	Prototype measuring of erosion and currents under the keel of a sailing ship in a canal. <i>K. Dorst, D.J. Meys, M. Schroevers and H.J. Verheij</i>			Assessing the efficiency of filters protecting base soil subject to erosion. <i>S. Azirou, A. Benamar and A. Tahakourt</i>			Impact of the 2011 tsunami on the littoral system around offshore breakwaters on Sendai Coast. <i>H. Tanaka, Y. Mitobe and A. Mori</i>		
17:00	Scour of soil with dynamics interactions among soil-water induced by jet flow. <i>T. Matsuda, K. Maeda and A. Yamaguchi</i>			Surface erosion countermeasures incorporating geotextiles. <i>M. Heibaum</i>			Determination of optimum wave reflection of seawalls via experimental modeling. <i>K. Nassar and A. Negm</i>		

# Tuesday 13 September 2016

09:00	Welcome ( <i>Lecture theatre 1</i> )								
09:30	Keynote presentation ( <i>Lecture theatre 1</i> ) - Cathy Avila: "25 years of fixing bridges on gravel mined rivers in California, Catherine M.C. Avila, P.E."								
10:30	Refreshments			Refreshments			Refreshments		
11:00	<b>Lecture theatre 1</b>	Bridge scour (1)	Chair: Bruce Melville	<b>Lecture theatre 2</b>	River and estuarine erosion (2)	Chair: Oscar Link	<b>Lecture theatre 3</b>	Scour management (1)	Chair: George Annandale
11:00	Experimental study of scour around bridge piers of different arrangements with same aspect ratio. <i>B.A. Vijayasree and T.I. Eldho</i>			A case of severe channel-morphology change due to human influences in the Touqian River, Taiwan. <i>M.-W. Huang, K.-W. Li, J.-J. Liao, Y.-W. Pan and D.-H Lee</i>			Application of wireless tracer GPRS riverbed scour monitoring for disaster warning. <i>C.C. Su and H.C. Yang</i>		
11:20	Mutual interference of bridge piers placed in staggered arrangement on scour depth. <i>M. Beg</i>			Bed morphology changes at river contractions. <i>G. Oliveto and M.C. Marino</i>			Rock scour in Australia: some latest Queensland experiences. <i>E. Bollaert, E. Lesleighter, S. McComber, P. Bozorgmehr, L. Fahey and D. Scriven</i>		
11:40	Estimation of scour for bridges in Illinois. <i>R. Chaulagai, P. Safarian Bahri and A. Osouli</i>			Numerical analysis of bed elevation and bank line changes at the confluence of Nakdong and Geumho Rivers in Korea. <i>E.K. Jang and U. Ji</i>			Investigation of sediment accumulation in Nubia Lake, using RS/GIS. <i>A.M. Negm and M.A. Elshahabi</i>		
12:00	Hydrodynamic effects of debris blockage and scour on masonry bridges: towards experimental modelling. <i>M. Ebrahimi, P. Kripakaran, S. Djordjević, G. Tabor, R. Kahraman, D.M. Prodanović and S. Arthur</i>			A simple method for estimating flood discharge in gravel-bed channels with varied riverbed level. <i>J.-H. Hong, W.-D. Guo, H.-W. Wang and P.-H. Yeh</i>			Flood threshold value for bridge scour prediction and warning. <i>F.-Z. Lee, J.-S. Lai, K.-C. Chang, Y.-B. Lin, H.-K. Chang, W.-D. Guo, Y.-C. Tan and C.-C. Huang</i>		
12:20	Feature of the vortex and the jet flows around and inside the three-row pile group. <i>A.V. Voskobijnyk, V.A. Voskoboinick, O.A. Voskoboynk, L.M. Tereshchenko and I.A. Khizha</i>			Analytical design for stable channel geometry of Naesung Stream in Korea. <i>U. Ji and E.K. Jang</i>			CARDigues: an integrated tool for levee system diagnosis and assessment. <i>E. Durand, J. Maurin, B. Bridoux and A. Boulay</i>		
12:40	Effect of densimetric Froude number on local bridge pier scour. <i>P. Williams, R. Balachandar and T. Bollsetti</i>			Screening methodology for bank erosion estimation at pipeline watercourse crossings. <i>G. Ferris and S. Newton</i>			Scour potential at Laouzas Dam. <i>E. Bollaert, F. Morel, B. Blancher and P. Lucquiaud</i>		
13:00	Lunch			Lunch			Lunch		
14:15	Technical visit to HR Wallingford (meet in the foyer, at the top of the stairs)								

# Wednesday 14 September 2016

09:00 Welcome (*Lecture theatre 1*)

09:10 Keynote presentation (*Lecture theatre 1*) - Scott Draper: “**Scour and sedimentation of submarine pipelines: closing the gap between laboratory experiments and field conditions**, S. Draper, L. Cheng and D. J. White”

Refreshments			Refreshments			Refreshments			
10:40	<b>Lecture theatre 1</b>	Erosion testing (2) Chair: Shinji Sassa	<b>Lecture theatre 2</b>	Scour at offshore structures Chair: Richard Whitehouse	<b>Lecture theatre 3</b>	Internal erosion (2) Chair: Jean-Jacques Fry			
10:40	Simplified Comprehensive Scour Model compared to Erodibility Index Method. <i>E.F.R. Bollaert</i>		Characteristics of scour and flow field beneath a forced vibrating circular cylinder. <i>Y.-M. Chiew, S.-C. Hsieh and Y.M. Low</i>		A possible characterization of suffusion susceptibility independent of the hydraulic loading history? <i>A. Rochim, D. Marot, L. Sibille and V.T. Le</i>				
11:00	Relationship between soil erodibility and engineering properties. <i>I. Shafii, J.L. Briaud, H.C. Chen and A. Shidlovskaya</i>		Effect of vibration on the scour process around cylindrical structures under unidirectional flow in a sandy bed. <i>M. Al-Hammadi and R.R. Simons</i>		Using DEM to assess the influence of stress and fabric inhomogeneity and anisotropy on susceptibility to suffusion. <i>K. Kawano, C. O'Sullivan and T. Shire</i>				
11:20	Lime treated soil erodibility investigated by EFA erosion testing. <i>A. Bennabi, G. Herrier and D. Lesueur</i>		Local scour and flow characteristics around a circular cylinder undergoing vortex-induced vibration. <i>S.-C. Hsieh, Y.-M. Chiew, M.-X. Wei and Y.M. Low</i>		Modeling of particles migration in porous media: application to soil suffusion. <i>C. Ahmed and B. Ahmed</i>				
11:40	The borehole erosion test. <i>J.L. Briaud, M. Chedid and A. Shidlovskaya</i>		Laboratory experiments on scour around flat circular buckets for high waves and strong current at Wido Windfarm, Westsouth Sea, Korea. <i>H. Kim, I. Kim, S. Lee and T. Hong</i>		A discrete numerical description of the mechanical response of soils subjected to degradation by suffusion. <i>R. Aboul Hosn, L. Sibille, N. Benahmed and B. Chareyre</i>				
12:00	Development of a new submersible test to characterise the erosion of soils and sediments. <i>O. Ndoye, C. Chevalier, P. Reiffsteck, C. Minatchy, S. Fanelli and D. Pham Van Bang</i>		The hydrodynamics of a recirculating (O-tube) flume. <i>H. Mohr, S. Draper, D.J. White, L. Cheng, H. An and Q. Zhang</i>		Lime treatment of slightly clayey coarse soil for the control of internal erosion by suffusion. <i>R. Elandaloussi, A. Bennabi, J.-C. Dupla, J. Canou, A.P. Benamar and P. Gotteland</i>				
12:20	The consistency of laboratory jet erosion tests performed on undisturbed samples. <i>J.L. Wibowo and B.A. Robbins</i>		Scour properties of Mono Bucket foundation. <i>I.-E. Stroescu and P. Frigaard</i>		Micro-scale characterization of fluid flow in a uniform particle pack using coupled discrete element-lattice Boltzmann method. <i>M. Aminpour, S.A. Galindo-Torres, A. Scheuermann and L. Li</i>				
12:40	Prediction of scour in overtopped floodwalls using JET and EFA. <i>P. Safarian Bahri, A. Osouli and E. Stendback</i>		Hybrid modelling of scour using laboratory and field measurements and artificial intelligence. <i>T. Raaijmakers, H.J. Riezebos, I. Centen, W. de Vries, I. Tönis, G. van Velzen</i>		Phenomenological interpretation of internal erosion in granular soils from a discrete fluid-solid numerical model. <i>L. Sibille, D. Marot, P. Poullain and F. Lominé</i>				
13:00	Lunch			Lunch			Lunch		
14:00	<b>Lecture theatre 1</b>	Internal erosion (3) Chair: Tom Shire	<b>Lecture theatre 2</b>	Bridge scour (2) Chair: Yee Meng Chiew	<b>Lecture theatre 3</b>	Sediment erosion and modelling (1) Chair: Ming Zhao			
14:00	Variation of small strain stiffness for piping-influenced Toyoura sand. <i>Y. Yang, R. Kuwano and X.U. Chao</i>		Small-scale physical modelling of scour at bridge piers with light-weight sediments. <i>S. Perrin, C. Keppers, S. Roux and E. Murphy</i>		Simulation of sand particle transport by coupled CFD-DEM: First investigations. <i>D. Plenker and J. Grabe</i>				
14:20	Experimental and numerical investigation of backward erosion piping in heterogeneous sands. <i>G. Negrinelli, V.M. van Beek and R. Ranzi</i>		An experimental study of live-bed scour at circular pier in covered flow. <i>O. Lauva and A. Radice</i>		Incipient motion of sediment in rectangular open-channel flow with a submerged rigid vegetation zone. <i>W. Xue, S. Wu, X. Wu, J. Zhou and J. Dai</i>				
14:40	Physical modelling of backward erosion piping in foundation beneath levee. <i>N. Koito, K. Horikoshi and A. Takahashi</i>		A model for scour around bridge piers caused by flood waves. <i>O. Link, A. Pizarro, C. Castillo, B. Ettmer and S. Manfreda</i>		Development of experimental methodology of investigating the relative and interactive effects of physicochemical properties of permeating fluids on incipient motion of granular particles. <i>M. Xiao and B.T. Adams</i>				
15:00	Hydraulic failure by heave and piping. <i>J. Garai</i>		Numerical study of local scour effects on the lateral pile-soil interaction. <i>W.-G. Qi and F.-P. Gao</i>		Development and verification of a finite volume model for hydraulics over multi-layered erodible beds. <i>T. Rowan and M. Seaid</i>				
15:20	Laboratory investigation of backward erosion piping – effects of inclined exit face and constricted seepage exits. <i>J.D. Rice, I.A. Ibrahim, R.A. Keizer Jr. and R.A. Jaeger</i>		The influence of upstream weir slope on live-bed scour at submerged weir. <i>L. Wang, B.W. Melville and H. Friedrich</i>						
15:40	Refreshments			Refreshments			Refreshments		
16:10	<b>Lecture theatre 1</b>	Internal erosion (4) Chair: Christophe Chevalier	<b>Lecture theatre 2</b>	Sediment erosion and modelling (2) Chair: Fuping Gao	<b>Lecture theatre 3</b>	Scour at structures Chair: Scott Draper			
16:10	Research to improve the applicability of ICOLD Bulletin 164 on internal erosion. <i>R. Bridle</i>		Mechanics and simulations of the ground sill damage due to the impacts from pebbles/cobbles. <i>Y.-W. Pan, K.-P. Leong, J.-J. Liao and C.S. Ku</i>		The influence of physical cohesion on scour around a monopile. <i>R.J. Schindler, S. Stripling, R.J.S. Whitehouse and J.M. Harris</i>				
16:30	Impact of soil treatment on internal erosion resistance and hydro-mechanical characteristics of a silty soil. <i>A. Mehenni, O. Cuisinier, F. Masrouri and E. Lavallée</i>		Numerical simulation of scour infilling in overset grid. <i>H. Kim, H.C. Chen and J.-L. Briaud</i>		Scour development around structures with non-uniform cylindrical geometries. <i>N.S. Tavouktsoglou, J.M. Harris, R.R. Simons and R.J.S. Whitehouse</i>				
16:50	Influence of uncertainties in internal erosion assessments of existing embankment dams. <i>M. Smith</i>		Numerical modeling of particle migration in granular soils. <i>I.G. Tejeda, L. Sibille, B. Chareyre and E. Vincens</i>		Shallow foundations for the support of vertical-wall bridge abutments: interaction between riprap and contraction scour. <i>C. Huang, O. Suaznabar, Z. Xie, J. Shen, N. Tsou, C. Lin and K. Kerenyi</i>				
17:10	Changes in soil deformation and shear strength by internal erosion. <i>C. Chen, L.M. Zhang and D.S. Chang</i>		Downstream foundation erodibility caused by extreme flood dam crest overtopping. <i>B. Blancher, F. Laugier, J. Vermeulen and T. Leturcq</i>		Pressure fluctuations on the scour surface before prismatic pier. <i>V.A. Voskoboinick, A.V. Voskoboinick, O.O. Areshkovych and O.A. Voskoboinyk</i>				
17:30					Experimental study of scour around a complex pier with elliptical pile-cap. <i>P. Gautam, T.I. Eldho and M.R. Behera</i>				
19:30	Conference dinner, Keble College, Oxford University								

# Thursday 15 September 2016

09:00 Welcome (*Lecture theatre 1*)

09:10 Keynote presentation (*Lecture theatre 1*) - Jean-Jacques Fry: "Lessons on internal erosion in embankment dams from failures and physical models, J.J. Fry"

Refreshments		Refreshments		Refreshments	
10:40	<b>Lecture theatre 1</b> Coastal and offshore scour Chair: Muk Chen Ong	<b>Lecture theatre 2</b> Internal erosion (5) Chair: Pierre Philippe	<b>Lecture theatre 3</b> Scour management (2) Chair: Beatrice Hunt		
10:40	Sandwaves and megaripples at Race Bank (UK) Offshore Wind Farm. <i>S.M. Larsen, A. Roulund, A.J. Brooks and A. Chaffey</i>	Feed-back on the development of a small scale Contact Erosion Test in the laboratory (characteristic size ~ 30 cm). <i>R. Beguin, P. Pinettes, C. Picault, L. Duchesne and J.-R. Courivaud</i>	Assessing the risks associated with internal erosion phenomena in aging embankment dams: a New Zealand perspective. <i>K.A. Crawford-Flett and J.J.M. Haskell</i>		
11:00	Self-burial of objects on sandy beds by scour: A synthesis of observations. <i>C.T. Friedrichs, S.E. Rennie and A. Brandt</i>	Investigation into the multiple recent sinkholes in Pokhara, Nepal. <i>R. Kuwano, T. Kiyota, R.M. Pokhrel, T. Katagiri, T. Ikeda, Y. Yagiura, T. Yoshikawa and J. Kuwano</i>	Hydraulic study on scouring downstream of Funagira Dam spillway apron (Japan). <i>Y. Kitamura and S. Takagi</i>		
11:20	Seabed preparation design and construction for the Malampaya Phase 3 Depletion Compression Platform. <i>J.Opkar, L. Lorenti and A. Grime</i>	Core crack-filling by upstream gap-graded soils in zoned dams. <i>R. Correia dos Santos, L. Caldeira and E. Maranha das Neves</i>	The human factor in an effective structure management system. <i>S. Hand, L. Caldwell and J. Scannell</i>		
11:40	Parametric equations for Shields parameter and wave orbital velocity in combined current and irregular waves. <i>A. Roulund, J. Sutherland, D. Todd and J. Sterner</i>	Experimental identification of the dominant fabric in widely graded soils. <i>H. Jentsch, P. Winkler, M.R. Salehi Sadaghiani and K.J. Witt</i>	Application of swat model to estimate the annual runoff and sediment of Duhok Reservoir watershed. <i>M.E. Mohammad, N. Al-Ansari and S. Knutsson</i>		
12:00	Effect of bottom roughness on sediment transport due to streaming beneath linear propagating waves with an angle of attack on current. <i>M. Saud Afzal, L.E. Holmedal and D. Myrhaug</i>	Measurement of constriction size distributions using three grain-scale methods. <i>T. Shire, C. O'Sullivan, H. Taylor and W.W. Sim</i>	Continuous grid monitoring to optimize sedimentation management. <i>T. Van Hoestenbergh, R. Vanthillo, P. Heidinger, J. Dornstädter, N. Dezillie and N. Van Ransbeeck</i>		
12:20	3D numerical modelling of pile scour with free surface profile under waves and current using the level set method in model REEF3D. <i>N. Ahmad, H. Bihs, A. Kamath and Ø.A. Arnsten</i>	Characterisation of flow conditions for contact erosion analysis using PIV. <i>H.M.D. Harshani, S.A. Galindo-Torres and A. Scheuermann</i>	Bridge scour monitoring - lessons learned. <i>B.E. Hunt</i>		
12:40	Detecting scour and liquefaction using OBS sensors. <i>H. An, L. Cheng, M. Zhao, G. Tang and S. Draper</i>	Model tests on subsurface cavities below road pavement due to sand eruption from the liquefied ground. <i>J. Kuwano, R. Kuwano and Y. Horiuchi</i>			

Lunch		Lunch		Lunch	
14:00	<b>Lecture theatre 1</b> Sediment erosion and modelling (3) Chair: André Koelewijn	<b>Lecture theatre 2</b> Internal erosion (6) Chair: Rodney Bridle	<b>Lecture theatre 3</b> Sediment erosion and modelling (4) Chair: Rob Schindler		
14:00	Physical modelling of debris flow deposits in contiguous confluences. <i>L.M. Stancanelli, E. Foti and S. Lanzoni</i>	Localized fluidization in a granular medium: Parametric study with a physical model of "sand boiling". <i>P. Philippe, P. Cuéllar, L.-H. Luu, S. Mena and J.S. Curtis</i>	The development of automated spatial and temporal measurement system for lab-scale local scour. <i>M. Porhemmat, W.H.M. Wan Mohtar and A. El-Shafie</i>		
14:20	Effects of transitions and objects on the erodibility of grass revetments on dikes. <i>G. Hoffmans, S. Stuparu, A. van Hoven and A. Labrujere</i>	Non-dimensional formulization of the critical hydraulic head difference for seepage failure of soil in front of sheet piles. <i>T. Tanaka and T. Miki</i>	Induced shear stress measurement in overtopped floodwalls. <i>P. Safarian Bahri, A. Osouli, D. Molohon and F. Lagunas</i>		
14:40	Model experiments and simulations on influence of liquefaction on scour at a landward toe of coastal dykes due to tsunami overflow. <i>N. Takegawa, Y. Sawada, K. Murai and T. Kawabata</i>	Experimental findings of soil particle movement in 2D seepage failure of soil using Particle Image Velocimetry. <i>T. Tanka, S. Sannabe, S. Nagai, K. Kasamatsu and K. Inoue</i>	Micromechanical features of jet erosion - A numerical perspective. <i>P. Cuéllar, L.-H. Luu, P. Philippe, F. Brunier-Coulin, N. Benahmed, S. Bonelli, J.-Y. Delenne and J. Ngoma</i>		
15:00	Dikes reinforced by deep mixing techniques - Long term properties. <i>A. Le Kouby, C. Chevalier and L. Saussaye</i>		Experiments on submerged slope erosion under unsteady water head. <i>X. Liang, L. Xie and Y. Zhu</i>		

15:40 Conference closing thoughts (*Lecture theatre 1*)

Refreshments		Refreshments		Refreshments	
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Thank you for joining us  
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