



BDS 2018 Conference Programme

Wednesday 12th September 2018

17:00 - 19:30	Registration	The Great Hall Entrance Foyer
18:00 - 20:00	Evening buffet meal	The Core
18:00 - 00:00	Informal bar	The Core
21:00 - 21:30	Meeting of Chairs and Technical Reporters	

Thursday, 13th September 2018 – Morning Sessions

07:30 - 08:45	Breakfast	The Core
08:00 - 09:00	Registration open	Entrance Foyer of the Great Hall
09:00 - 09:20	Conference Opening Tracey Williamson, Chair of BDS Welcome by Swansea University Welcome by Dwr Cymru Welsh Water	The Great Hall Auditorium
09:20 - 09:50	KEYNOTE SPEECH Speaker: Tom Crick MBE	The Great Hall Auditorium
09:50 - 11:00	Session 1: PLANNING AND INVESTIGATORY TECHNIQUES Session Chair: Tracey Williamson Technical Reporter: Liz Rivers	The Great Hall Auditorium
	09:55 - 10:10 Alasdair Walker - Experiences in using Geophysical Methods to Assess Seepage	
	10:10 - 10:25 Marco Rettura - Island Barn Reservoir – Embankment Leakage remedial works	
	10:25 - 10:40 Adam Paskins - Valve Tower internal 3D laser scans to survey and facilitate design	
	10:40 - 11:00 Session 1 Q&A	
11:00 - 11:30	Refreshments and exhibition viewing	The Gallery
11:30 - 12:50	Session 2: WORKING WITH OUR HERITAGE Session Chair: David Littlemore Technical Reporter: Hermann Stehle	The Great Hall Auditorium
	11:35 - 11:50 Craig Scott - Where to for Reservoirs?	
	11:50 - 12:05 Steve Morris - The multiple uses of NRW reservoirs over the centuries	
	12:05 - 12:20 John Hopkins - Vartry Lower Reservoir – The Planning & Design of Upgrade Works	
	12:20 - 12:50 Session 2 Q&A	
Notices to explain workshops and site visits (D Littlemore)		
13:00 - 13:50	Lunch Delegates attending an afternoon site visit will collect a packed lunch from the Core Delegates remaining on campus for workshops will be provided with a buffet lunch	The Core



Thursday, 13th September 2018 – Afternoon & Evening

The afternoon provides a choice of site visits and selection of themed workshops

SITE VISITS	
13:00 Collect packed lunch from the Core and board the coach	
Site Visit S1: Caerphilly Castle Moats Host: Cadw Link to additional information Drive time: Approximately 30 minutes	Site Visit S2: Shon Sheffrey & Rhymney Bridge No. 2 Host: Dwr Cymru Welsh Water Link to additional information Drive time: Approximately 1 hour
Return at 17:30	Return at 17:30

WORKSHOPS					
Venue	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc
13:50	Workshop T1 Geophysical Investigations for Reservoir Safety Assessments	Workshop T2 Flood Storage Reservoirs – Design Aspects	Workshop T3 Concrete Dam Lessons	Workshop T4 Mechanical and Electrical Aspects of Dams	Workshop T5 Innovative technologies for improving the management of dams
15:30	Refreshments served in the Gallery				
16:00	Workshop T6 Reservoir Safety Advisory Group - Past, present and future	Workshop T7 Managing reservoir confined spaces	Workshop T8 Reservoir Discontinuance	Workshop T9 Valves and pipework	Workshop T10 SE application guidance / S12 report writing
17:30	End	End	End	End	End

EVENING		
18:30 - 19:30	The Geoffrey Binnie Lecture: <i>The Role of Inspection and Monitoring in Risk and Asset Management: Prescription or Guidance</i> By Mike Cambridge	The Great Hall Auditorium
19:30 - 20:00	Pre-dinner Reception VIP Reception	Gallery
20:00	Conference Dinner	The Great Hall Auditorium
20:00 - 00:00	Bar open	The Core



Friday, 14th September 2018 – Morning Sessions

07:30 - 08:30	Breakfast	The Core
08:45 - 09:00	Notices	The Great Hall Auditorium
09:00 - 10:35	Session 3: NEW APPROACHES TO DESIGN Session Chair: David Steven Technical Reporter: TBC	
	09:05 - 09:20	Paul Bennett -3D geological modelling to aid efficient remedial works design and planning
	09:20 - 09:35	Jonathan Hinks - Fuse-plug Spillways
	09:35 - 09:50	Peter Townshend - Innovative automatic spillway gates to provide assurance of operation for dam safety
	09:50 - 10:05	Alan Warren - Developments in the design and construction of the Usk Reservoir spillway
	10:05 - 10:35	Session 3 Q&A
10:35 - 11:05	Refreshments and exhibition viewing	Gallery
11:05 - 12:40	Session 4: INNOVATIVE APPROACHES DURING DAM CONSTRUCTION Session Chair: Rachel Davies Technical Reporter: TBC	
	11:10 - 11:25	Andrew Thompson - The Ultimate Dam Revisited
	11:25 - 11:40	David Neeve - Building Two Dams in the 'Smart Era'
	11:40 - 11:55	Mark Cooper - Trebeddrod – A case study on the construction of a small spillway at a constrained site
	11:55 - 12:10	Tim Blower - Safeguarding Critical Infrastructure against Landslip Risk on a large dam in Albania
	12:10 - 12:40	Session 4 Q&A
12:40 - 13:40	Lunch Delegates attending an afternoon site visit will collect a packed lunch from the Core Delegates remaining on campus for workshops will be provided with a buffet lunch	The Core



Friday, 14th September 2018 – Afternoon and Evening

The afternoon provides a choice of site visits and a selection of themed workshops

SITE VISITS	
12:40 Collect packed lunch from the Core and board the coach	
Site Visit S3: National Botanic Gardens of Wales Host: Garden of Wales Link to additional information Drive time: Approximately 1 hour	Site Visit S4: Usk Reservoir Host: Dwr Cymru Welsh Water Link to additional information Drive time: Approximately 1.5 hours
Return at 18:00	Return at 18:30

WORKSHOPS <i>(Note: some workshop straddle the refreshment break)</i>					
Venue	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc	Workshop room: tbc
13:40	Workshop F1 CFD Modelling	Workshop F2 Remote Monitoring (Part 1)	Workshop F3 Emergency planning, incident management & post-incident reporting training (Part 1)	Workshop F4 Mechanical and Electrical Aspects of Dams (repeated)	Workshop F5 Using recent guidance – Floods & Reservoir Safety 4th edition
15:20	Refreshments served in the Gallery				
15:50	Workshop F6 Using recent guidance – Guide to drawdown capacity	Workshop F7 Remote Monitoring (Part 2)	Workshop F8 Emergency planning, incident management & post-incident reporting training (Part 2)	Workshop F9 Valves and pipework (Repeated)	Workshop F10
17:20	End	End	End	End	End

EVENING		
19:00 - 21:00	Dinner (Hot buffet)	The Great Hall
20:00 - 22:00	Young Professionals Group Social	The Great Hall
19:00 - 00:00	Bar open	The Core



Saturday, 15th September 2018 – Morning Sessions

07:30 - 09:00	Breakfast	The Core	
08:45 - 09:00	Notices	The Great Hall Auditorium	
09:00 - 10:20	Session 5: SENSING AND MONITORING TECHNIQUES FOR THE 21ST CENTURY Session Chair: Abby Downing Technical Reporter: TBC	The Great Hall Auditorium	
	09:05 - 09:20		Pam Rigby - Remote Monitoring – Opportunities and Challenges of Innovation
	09:20 - 09:35		Ricardo Cifres - Space Technologies for Dam Monitoring
	09:35 - 09:50		Louis Coetzee - Smart Construction Monitoring of Dams With UAVS - Neckartal Dam Water Project Phase 1
	09:50 - 10:05		Richard Robson - The use of Thermal Imaging Cameras for everyday Site Inspections
	10:05 - 10:35		Session 5 Q&A
10:35 - 11:05	Refreshments & exhibition viewing	Gallery	
11:05 - 12:25	Session 6: EMERGENCY PREPAREDNESS Session Chair: Louise Shaw Technical Reporter: TBC	The Great Hall Auditorium	
	11:10 - 11:25		Alan Warren - Learning from reservoir incidents – a summary of the causes and management of incidents in the UK
	11:25 - 11:40		Andy Courtnadge - Guide to Drawdown Capacity for Reservoir Safety and Emergency Planning – Feedback
	11:40 - 11:55		Sam Tudor - Improving the emergency drawdown reliability at Llyn Brenig reservoir
	11:55 - 12:25		Session 6 Q&A
12:25 - 12:30	Close of conference Tracey Williamson, Chair of BDS	The Great Hall Auditorium	
12:30 - 13:30	Lunch	The Core	
	Depart		