



The British Dam Society at the Institution of Civil Engineers

**18th BIENNIAL CONFERENCE OF THE BRITISH DAM SOCIETY HELD AT QUEEN'S
UNIVERSITY, BELFAST ON 3RD – 6TH SEPTEMBER 2014**

Maintaining the Safety of our Dams and Reservoirs

CONFERENCE PROGRAMME

Wednesday 3rd September 2014	
12:00 - 17:00	Pre-conference site visit to Lagan Weir and boat trip touring harbour. Lunch at McHughs
17:00	Arrive back at QUB, Whitla Hall
17:00 - 19:30	Registration: Whitla Hall
18:30 - 20:30	Evening meal: Whitla Hall
21:00	Meeting of Chairmen and Technical Reporters – Whitla Hall Meeting Rooms

NOTES:

Halls of Residence

The Elm Village is located approximately 1km from the main campus along the Malone Road, a pleasant area of South Belfast. There are a few bars, restaurants and convenience stores on route.

A shuttle bus service will be provided between the Elm Village and the main Campus at key times. It would be a very pleasant walk in dry weather for those who choose.

The Elm Village has limited car parking which is allocated on a first come basis. There is a daily charge of £0.50. There is NO parking permitted at the main University campus.

At the heart of the Elms Village is the Treehouse. This is where breakfast will be served on each day. The Treehouse contains a Mace convenience store, ATM and Laundry.

Whitla Hall and Larmour Lecture Theatre

The Whitla Hall (Sir William Whitla) is located at the front of the main University building. It will be the focal point for all conference events (registration, refreshments, meals (excluding breakfast) and the Conference Exhibition. The nearest shops and Students Union are 150m away.

The Larmour Lecture Theatre is located in the Physics Building which is adjacent to Whitla Hall. There is easy access between the two buildings.



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Thursday 4 th September 2014	
07:30 – 08:45	Breakfast: Elm Village Treehouse
	Shuttle Bus running
08:00 – 09:00	Registration: Whitla Hall
09:00	Conference Opening: Larmour Lecture Theatre, Physics building Ian Hope , Chairman of BDS Professor Trevor Whittaker , Head of SPACE, QUB Geoff French , President, Institution of Civil Engineers
09:15 – 10:30	Session 1: Larmour Lecture Theatre, Physics building LEGISLATION AND ENVIRONMENTAL CHALLENGES Session Chairman: Ian Hope Technical Reporter: Ian Merrill Changes to the Reservoirs Act 1975 – the enforcement authority's perspective in England R LEWIS Implementation of the Reservoirs (Scotland) Act 2011 H THOMAS The Reservoirs Bill for Northern Ireland D PORTER How overcoming environmental challenges shaped the design of a new reservoir in North West Ireland D MCKILLEN Chingford Pond Restoration T WANNER
10:30 – 11:00	Tea/Coffee: Whitla Hall (in Conference Exhibition area)



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11:00 – 12:15	<p>Session 2: Larmour Lecture Theatre, Physics building GEOTECHNICAL ISSUES OF DAM CONSTRUCTION AND MAINTENANCE Session Chairman: Richard Robson Technical Reporter: Sally Russell</p> <p>The Nearly Perfect Nineteenth Century Embankment Dam P RIGBY & A THOMSON</p> <p>Remedial Grouting at Shon Sheffrey Dam, Wales D BRUGGEMANN</p> <p>Bransholme Lagoon: Problems in design and implementation of a sheet pile solution to remedial A PETERS & S PRYCE</p> <p>Didachara Dam – Site Constraints in Dam Hydraulic Design J PAWSON</p>
12:15 - 13:00	Buffet Lunch (seated): Whitla Hall
13:00 - 14:15	<p>Session 3: Larmour Lecture Theatre, Physics building MECHANICAL COMPONENTS OF DAMS Session Chairman: Newman Booth Technical Reporter: Viktor Pavlov</p> <p>Refurbishment of the Portora Sluice Gates, Enniskillen, Northern Ireland K MCKUSKER</p> <p>Dunalastair Dam Floodgate Replacement R DIGBY</p> <p>Rudyard Reservoir (Staffordshire) Safety Related Works D WINDSOR & M COOMBS</p> <p>Sliplining Bottom Draw-Offs J WALKER</p>
14:15 - 14:45	Tea/Coffee: Whitla Hall (in Conference Exhibition area)



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Thursday 4 th September 2014	
14:45 – 16:00	<p>Session 4: Larmour Lecture Theatre, Physics building RISK ANALYSIS AND REDUCTION MEASURES Session Chairman: Craig Goff Technical Reporter: Alex Topple</p> <ul style="list-style-type: none"> • Reservoir safety research strategy • New Guide to the Reservoirs Act 1975 • Prescribed Form of Record for reservoirs in England • CIRIA 167 'Lessons from Incidents and dams and reservoirs – an engineering guide' <p>A WARREN</p> <ul style="list-style-type: none"> • CIRIA RP982 'Dam and Reservoir Conduits' <p>A HUGHES</p> <p>A Practical Application of UK Guidelines for the Public Acceptability of the Risk of Dam Failure</p> <p>K GARDINER</p> <p>Setting standards for draw-down capability at Scottish Water's Reservoirs</p> <p>R MANN</p> <p>Emergency planning for mining waste facilities in England</p> <p>T HILL</p>
16:00	Coaches collect delegates from lecture theatre and take to Halls.
17:20	Coaches collect delegates from Halls and take to Titanic Belfast for Binnie Lecture and Conference Dinner.
18:00 - 19:00	<p>Geoffrey Binnie Lecture Andrews Gallery, Titanic Belfast Mr G A Cooper, OBE "The Heritage of Dams in Northern Ireland "</p>
19:15	Pre dinner Reception: Titanic Suite
20:00	Dinner: Titanic Suite
21:30	After Dinner Speakers
00:00	Bar Closes
22:00 to 00:30	Carriages: A shuttle bus service will be provided between Titanic and the QUB Halls commencing at 22:00.



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Friday 5 th September 2014	
07:30 – 08:10	Breakfast: Elm Village Treehouse
8:10	Bus Collection at Elm Village for ALL delegates The buses for the site visits will collect all delegates from the Elm Village and transport to the morning lecture session. All site equipment and bags can be left on the buses as these will be the same buses for the site visits. Buses will be numbered accordingly.
08:30 - 10:00	Session 5: Larmour Lecture Theatre, Physics building DESIGN AND CONSTRUCTION CASE STUDIES Session Chairman: David Porter Technical Reporter: Kieran Brazier The design and construction of an enlargement scheme for Black Esk reservoir (Scotland) J ACKERS & S PRYCE Eller Beck Flood Storage Reservoir – the challenges of low impact flood storage P BRINDED Shon Sheffrey Reservoir – Labyrinth overflow and replacement of masonry spillway R TERRELL The issues associated with the discontinuance of impounding reservoirs S RUSSELL & D REBOLLO
10:15 - 16:30	Site Visits - Coaches for Tours 1 – 4 Depart from QUB Whitla Hall. Note: it is important to get on to the same bus as the earlier collection from the Elm Village.
16:30 - 17:30	Return from site visits (Tour times vary)
18:30	Evening Meal plus entertainment – Whitla Hall



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Saturday 6 th September 2014	
07:30 - 08:45	Breakfast: Elm Village Treehouse
09:00 - 10:30	<p>Session 6: Larmour Lecture Theatre, Physics building MONITORING AND INCIDENTS AT DAMS Session Chairman: Tracey Williamson Technical Reporter: Rachel Davies</p> <p>Emergencies, monitoring and surveillance, and asset management – a new approach A HUGHES</p> <p>Improving the overtopping resistance of existing flood detention reservoirs J GOSDEN</p> <p>The Rhymney Bridge Incident A HUGHES</p> <p>Safe access to reservoirs in winter A ROSS</p>
10:30 - 11:10	Tea/Coffee: Whitla Hall (located in Conference Exhibition area)
11:10 - 12:25	<p>Session 7: Larmour Lecture Theatre, Physics building REPAIRS TO DAMS Session Chairman: Andy Hughes Technical Reporter: Ben Jones</p> <p>Rehabilitation of an 800 year old masonry dam A BROWN</p> <p>An investigation into the impact of a 50yr old discrepancy on the safety of Tittesworth Reservoir J CHESTERTON</p> <p>Planning for emergencies and rehabilitation to improve operational safety at Spelga Dam, NI D MCKILLEN</p> <p>Refurbishment of Woodburn Reservoirs Eduction Towers and Scour Pipework G BRIGGS</p>
12:25 - 12:30	Conference Close: Ian Hope , Chairman of BDS



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12:30 - 13:30	Buffet Lunch: Whitla Hall
13:30	Depart for Post Conference Tours (Optional Extra)