



## Speakers:

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Speakers	Organisation	Position
Dr. Adrienn Tomor	Univ. of West of England, UK	Senior Lecturer
Dr. Jose Martín-Caro	INES Consultores, Spain	General Director, Chief Engineer
Dr. Paul Fanning	University College Dublin, Ireland	Associate Professor
Prof. M Gilbert	Univ. of Sheffield, UK	Full Professor
Prof. W. Harvey	Bill Harvey Associates, UK	Full Professor
Dr. Zoltan Orban	University of Pécs, Hungary	Associate Professor



# 1st UIC workshop on masonry arch bridges 7-8 June 2018, FFE, Madrid

## Agenda: Day 1 –7 June 2018

Time	Title	Who
12:30-13:00	Arrival and registration	
13:00-13:15	Welcome and introduction	ADIF, UIC and invited speakers
13:15-13:45	<b>General information on the UIC Masonry Arch Bridges project</b> <ul style="list-style-type: none"><li>Background, organisation of work, participants, project phases, tasks, deliverables, dissemination of results</li><li>Introduction of IRS 70778-3R (Recommendations for the inspection, assessment and maintenance of masonry arch bridges)</li></ul>	Z. Orban, project manager
13:45-14:45	<b>Behaviour, inspection and assessment of masonry arch bridges</b> <ul style="list-style-type: none"><li>General principles</li><li>Ultimate and permissible limit state behaviour</li></ul>	W. Harvey M. Gilbert
14:45-15:45	Lunch	
15:45-17:00	<b>Inspection and testing for assessment</b> <ul style="list-style-type: none"><li>Damages of masonry arch bridges &amp; Damage Catalogue</li><li>Testing material properties</li><li>Non-destructive testing</li><li>Load tests on arches</li></ul>	J. Martín-Caro Z. Orban Z. Orban, A. Tomor P. Fanning
17:00-18:30	<b>Analysis tools for assessment</b> <ul style="list-style-type: none"><li>Simple first level tools</li><li>Archie-M</li><li>Limit State: RING</li><li>FEM, DEM</li><li>Assessment of arches with damages</li><li>Multi-level assessment</li></ul>	W. Harvey W. Harvey M. Gilbert M. Gilbert, P. Fanning, ??? J. Martín-Caro Z. Orban

## Agenda: Day 2 –8 June 2018

Time	Title	Who
08:30-10:30	<b>Serviceability, permissible load, life expectancy</b> <ul style="list-style-type: none"><li>Susceptibility of arches to degradation under service loading conditions</li><li>Dynamic behaviour of arches</li><li>Deterioration due to fatigue &amp; monitoring with acoustic emission</li><li>Life expectancy &amp; SMART assessment</li></ul>	J. Martín-Caro P. Fanning A. Tomor A. Tomor
10:30-10:45	Coffee break	
10:45-11:30	Maintenance and repair	J. Martín-Caro
11:30-13:30	Case studies, new developments, discussions	all speakers