WORKSHOP PROGRAM

SEPTEMBER 12th

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08:30- 09:15	Registration	
09:15	Event welcome & Workshop introduction.	
WORKSHOP SESSION 1: "TESTING AND MONITORING"		
Plenary lectures (Chairs: Caliò and Zampieri):		
9:45	Non-Destructive testing and monitoring of masonry arch bridges. Carmelo Gentile (Politecnico di Milano)	
10:15	Risk assessment and monitoring of masonry bridges exposed to scour. Enrico Tubaldi (University of Strathclyde)	
10:45	Break	
11:15	Laboratory testing of a full-scale masonry arch bridge. Vasilis Sahrosis (University of Leeds)	
11:45	Session lectures and discussion (Chairs: Gentile and Zizi):	
	NDTs for the characterization of material degradation and structural damages of masonry arch bridge and collapse evaluation. Filippo Ubertini, Nicola Cavalagli (University of Perugia)	
	Experimental characterization of the structural behaviour of masonry arch bridges Cristina Costa (University of Porto)	
	Monitoring of railway arch bridges Alberto Mauro, Giulia Polimanti (RFI)	
	Structural response of masonry arch bridges with scoured piers. Fabrizio Scozzese (Università di Camerino)	
12:50	Lunch	
13:50	The NORISK International Master in Risk Assessment and Management of Civil Infrastructures Mariano A. Zanini (University of Padova)	

WORKSHOP SESSION 2: "ASSESSMENT AND ANALYSIS"

lenary l	ectures (Chairs: Sarhosis and Cannizzaro):
4:00	Practical analysis and assessment of masonry arch bridges. Matthew Gilbert, Serena Amodio (University of Shef- field)
4:30	A 3D discrete-macro-element-method for the structural assessment of masonry bridges. Ivo Caliò (University of Catania)
5:00	Multi-level assessment of masonry arch bridges. Lorenzo Macorini (Imperial College London)
5:30	FE limit analysis modelling of masonry arch bridges interacting with the backfill: suitability and open challenges. Gabriele Milani, Yiwei Hua (Politecnico di Milano)
6:00	Virtual experiments on masonry arches and barrels with the help of the discrete element method. Katalin Bagi (Budapest University of Technology and Economics)
6:15	Break
6:30	Session lectures and discussion (Chairs: Macorini and Cavalagli):
	Crack pattern in masonry bridges including soil elasticity. Vincenzo Mallardo (University of Ferrara)
	Advanced 3D modelling of masonry arch bridges subjected to earthquake loadings. Bartolomeo Pantò (Durham University)
	Effect of the damage state on structural safety of masonry bridges. Corrado Chisari (University of Campania " Luigi Vanvitelli")
	Nonlinear numerical simulation tools for in-service assessment of masonry arch bridges. Ruben Silva (University of Porto)
	Discretization issues in kinematic limit analysis of masonry arch bridges. Nicola Grillanda (University of Ferrara)
7:50	Closing session
	Social Dinner

Departure shuttle at 19.15 in Prato della Valle (Padua). For

more information: https://www.womab.com/social-dinner

19:30

SEPTE	MBER 13 th
09:00	Session lectures and discussion (Chairs: Oliveira and Zizi):
	Fatigue assessment of existing masonry arch bridges. Michele D'Amato (<i>Università degli Studi della Basili-</i> cata)
	Integration of advanced modeling and cost-effective strategies in the structural analysis of masonry bridges as operational support for the design of the knowledge process and management of uncertain parameters. Luigi Salvatore Rainone ¹ , Luis Carlos Martins da Silva ² , Vito Tateo ¹ , Siro Casolo ² , Giuseppina Uva ¹
	(¹ Politecnico di Bari; ²Politecnico di Milano)
	Seismic retrofit of an historical Italian railway mason ry arch bridge Guido Furlan (Net Engineering)
WORKSI NANCE"	HOP SESSION 3: "STRENGTHENING AND MAINTE
Plenary	lectures (Chairs: Ubertini and Scozzese)
9:45	Discussion on the different strengthening techniques for masonry bridges. Paolo Zampieri (University of Padova)
10:15	Masonry arch bridges: from visual inspection to structural assessment. Gianfranco De Matteis (University of Campania ' Luigi Vanvitelli")
10:45	Break
11:15	Masonry arch bridges: from non-destructive techniques and numerical models to repair. Daniel Oliveira (University of Minho)
11:45	Session lectures and discussion (Chairs: De Matteis and Costa)
	Strenthening strategies for spandrels of masonry archbridges. Natalino Gattesco, Ingrid Boem (University of Trieste)

Numerical modelling of retrofitting strategies of masonry arch bridges by means of the Discrete Macro-Element Method.

Francesco Cannizzaro (University of Catania)

Plenary lecture (Chair: Caliò)

- Partitioned modelling for effective multi-fidelity analysis of masonry arch bridges 12:15 Bassam A. Izzuddin (Imperial college of London)
- 12:45 Workshop Closing Ceremony

GIORNATA-STUDIO FABRE: VALUTAZIONE, GESTIONE, MANU-TENZIONE E MONITORAGGIO DEI PONTI IN MURATURA