

## Draft programme

### Monday, 19 July 2010

09:00 - 09:40 Registration and Coffee

#### Session 1

09.40 - 10.20 Presentation 1

10.20 - 11.00 Presentation 2

11.00 - 11.30 Coffee and Exhibition

#### Session 2

11.30 - 12.10 Presentation 3

12.10 - 12.50 Presentation 4

12.50 - 13.00 Welcome by the Dean

13.00 - 14.00 Lunch and Exhibition

#### Session 3

14.00 - 14.40 Presentation 5

14.40 - 15.20 Presentation 6

15.20 - 16.00 Presentation 7

16.00 - 16.30 Tea and Exhibition

16.30 - 16.10 Presentation 8

16.10 - 16.50 Presentation 9

19.30 - 22.00 Dinner

### Tuesday, 20 July 2010

09:00 - 09:30 Coffee and Exhibition

#### Session 4

09.30 - 10.10 Presentation 10

10.10 - 10.50 Presentation 11

10.50 - 11.40 Coffee and Exhibition  
Tour of UWE lab  
facilities (optional)

11.40 - 12.20 Presentation 12

12.20 - 13.00 Presentation 13

13.00 - 14.00 Lunch and Exhibition

#### Session 5

14.00 - 14.40 Presentation 14

14.40 - 15.20 Presentation 15

15.20 - 16.00 Discussion and close

# Masonry Arch Bridges Masterclass 19-20 July 2010

University of the West of England, Bristol

Short Course Unit  
Faculty of Environment and Technology  
University of the West of England  
Coldharbour Lane  
Frenchay  
Bristol  
BS16 1QY

<http://www.bne.uwe.ac.uk/short/masonryarchbridges/>

# Masonry Arch Bridges Masterclass: Recent Developments

19-20 July 2010

The Atrium  
Room 2R001  
Q Block  
University of the West of England  
Frenchay Campus  
Coldharbour Lane  
Bristol BS16 1QY

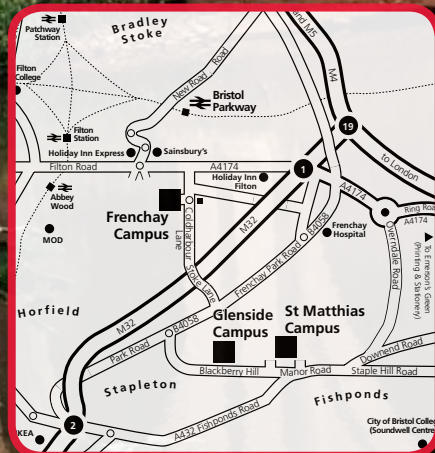
The event is aimed at practitioners involved with masonry arch bridges assessment, maintenance and management, such as bridge owners, local authorities, consulting engineers, contractors and academic engineers. The two-day masterclass will focus on recent developments related to masonry arch bridges from a practical perspective.

## Introduction

Masonry Arch Bridges form about 40% of the European bridge stock. 60% of these bridges are over 100 years old and carry traffic with heavily increasing weight, speed and density, without any change to their original construction. Apart from the increasing traffic demands and associated deterioration due to long-term loading, masonry arch bridges also suffer deterioration due to various environmental effects. Progressive deterioration will sooner or later lead to the end of the bridges' useful service life which will ultimately lead to updating or replacement.

In order to ensure that old masonry bridges remain in service for as long as possible and to avoid unnecessary repair costs, it is essential that the bridges load carrying capacity, rate of deterioration and remaining service life are accurately assessed.

Although it is still difficult, if not impossible to give accurate assessment of the bridge's condition, developments are gradually taking place in many areas. The masterclass is aiming to introduce recent developments in masonry arch bridges design, new construction, monitoring, assessment and maintenance from a practical perspective.



## Speakers will include:

### Design, Standards and Guidelines:

- Dr Jinyan Wang**  
UWE  
MEXE method

### Construction, New Arch Bridges:

- Abhey Gupta**  
Macrete  
Precast arch bridges

### Monitoring Techniques:

- Dr Geoff Edgell**  
CERAM  
Investigating strength, stiffness and durability of existing masonry through case studies
- Prof Kenichi Soga**  
University of Cambridge  
Monitoring masonry structures using fibre optics
- Dr Bill Harvey**  
Obvis  
Monitoring, what can be done and what is its value, including some examples of poor monitoring
- Dr Adrienn Tomor**  
UWE  
Acoustic Emission monitoring

### Assessment, Modelling:

- Graham Cole**  
County Surveyors Society  
Management of masonry bridges
- Dr Matthew Gilbert**  
University of Sheffield  
What's inside matters!
- Prof Tim Hughes**  
University of Cardiff  
Elastic Serviceability Assessment
- Dr Bill Harvey**  
Obvis  
Distribution models and failure criteria in analysis for assessment and design
- Dr Adrienn Tomor**  
UWE  
Assessment of long-term life expectancy of masonry arch bridges (SMART method)

### Maintenance, Strengthening and Reinforcement:

- Dr Gerard Lynch**  
The Red Mason  
Binders in mortars in traditional brickwork masonry
- Roz Aris-Young**  
Scottish Lime Centre  
Application and use of mortars in masonry arch bridges

**Delegate fee:** £125 per person per day; for third or more bookings from same organisation: £50 per person per day

**Bed and Breakfast on UWE Campus:** £37.50 per person per night available for nights of 18 and/or 19 July 2010

**Dinner on 19 July 2010:** £40.00

Poster exhibition is available for all delegates free of charge

"There are three types of people, those who **make** things happen, those who **watch** things happen, and those that **wonder** what happened"

(Unknown)

## Booking form

Name

Organisation

Address

Postcode

Telephone

E-mail

### Please tick your booking requirements

	Day delegate	3rd day delegate	Overnight	Dinner
18 July 2010	n/a	n/a		n/a
19 July 2010				
20 July 2010			n/a	n/a

Dietary requirements:

Access needs for disability:

I will be bringing a poster exhibition:

I enclose a cheque (made payable to University of the West of England)

I will pay online at:  
<https://store.uwe.ac.uk/catalogue/products.asp?compid=1&deptid=13&catid=25&hasClicked=0>

Please send invoice to:

Purchase order no: