

Network Rail Research Update BoF meeting - 13 Jan 2009

Recent publications

- Nil

Publications expected soon

- CIRIA Tunnels guide
- CIRIA Dry stone wall guide

Recent finishes

- Bath University – Lime mortar project
- Edinburgh University – Radar on arches
PhD awarded with 5 minor corrections

Recent starts

- EU Coal and Steel Research Fund - BriFag
- Surrey University – Corrosion in elderly metallic bridges
PhD student now recruited
- Innovative Multi-Materials Jointing Integrity Engineering (IMAJINE)
TSB funded, lead partners NPL and ESR technology NR & HA invited to join IAG

About to start

- Marie Curie Initial Training Network 2008 call - Smart Management for Sustainable Human Environment (Cyprus Technical University)
Funding confirmation received December 2008 – final negotiations with EU awaited, probable start spring 2009

On going

- Bath University – Dry stone retaining walls
- Leeds University – FRP on metallic structures
- Surrey University – Risk based inspections
Final meeting to be held in Feb 2009, thesis under preparation
- UWE – Fatigue behaviour and remaining service life of masonry arch bridges
- CIRIA – Culvert design and operation guide
- CIRIA – Whole life asset management
Final review under way
- CIRIA – Noise and vibration

Participation in on going work by others

- Highways Agency – FRP decking on pre stressed concrete beams
- BOF bridge inspection process and inspector competence
Final PSG meeting to be held on 28th January 2009

Under evaluation

- EU 7th Framework Programme - Effective bridges
Initial evaluation challenged, new evaluation result expected in March
- European Science Foundation Research Networking Programmes, 2008 - Masonry arch bridges (University College, Dublin)
Accepted as eligible, undergoing evaluation, final decision expected June 2009 for start in early 2010.

New submissions

- Nil

Under discussion

- Surrey University – Risk based inspections
TFL appear interested in a follow on project
- CIRIA – Risk & value management
- CIRIA – Update to guide for building in vicinity of old mine workings
- Edinburgh University and Parsons Brinckerhoff – Footbridge dynamics
- European Commission lead market initiative
- Construction procurement (International Construction Client Forum)

Previously reported developments not proceeding

- Marie Curie Initial Training Network 2008 call - Disruption and Damage to Critical Transport and Power Infrastructure (Birmingham University)
- European Commission Security Call - Extreme events on critical infrastructure (Bath University)
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Other activities

- Invited paper on use of FRPs in railway civil engineering accepted by ICE Journal Engineering and Computational Mechanics
- With Neil Loudon invited to prepare a paper for Thomas Telford publication Magazine of Concrete Research on FRP strengthening of concrete structures – submission due 19 January 2009.
- Invited keynote speaker at ACIC 2009, Edinburgh