

# International Conference on Ground Anchorages and Anchored Structures in Service 2007

Abstracts by  
28 February 2007



Welcome to Ground Anchorages and Anchored Structures in Service 2007

The Institution of Civil Engineers welcomes prospective authors, delegates and exhibitors to the International Conference on Ground Anchorages and Anchored Structures in Service, to be held in November 2007.

## International Conference on Ground Anchorages and Anchored Structures in Service 2007

### Purpose of the conference

This two-day conference will provide guidelines on good practice in maintenance testing and service behaviour monitoring of individual ground anchorages and anchored structures. It will seek to illustrate the performance of anchorages in practice via case histories, together with recent developments in non-destructive testing and corrosion protection.

Millions of ground anchorages have been installed over the past 80 years with relatively few recorded failures. However, as permanent anchorages in service become older, the subject is of growing importance, particularly for anchorages installed over 30 years ago: many of which have been designed with corrosion protection considered inadequate by today's standards.

Water levels reached 150-year highs in 2002 with associated flooding across Central and Eastern Europe, so the importance of anchored river and seawalls can not be overemphasised. Winter storms are now judged by the insurance industry to represent the largest potential event loss in Europe. Elsewhere in the world, the highest potential losses are associated with earthquakes and typhoons, where anchored slopes are vital in resisting landslides and rock avalanches.

Routine programmes of inspection and monitoring can extend the service life of the anchored structures that represent key elements of a country's infrastructure. Where inspection highlights unacceptable tendon corrosion or over-stressing, the results provide early warning of the need for precautionary or remedial measures in order to safeguard the integrity of the anchored structure.

In spite of these benefits, sufficient attention is not currently paid to routine maintenance inspections and service behaviour monitoring. The potential consequences should not be ignored.

Papers for this conference will cover a wide range of topics including:

- Inspection procedures and physical condition recorded in service
- Service behaviour monitoring procedures and performance in service
- Dam rehabilitation
- Rock bolts in tunnels and mines
- Non-destructive integrity testing
- Corrosion protection systems
- Case histories of satisfactory performance, shortcomings and failures in service
- Recommendations and standards of practice related to inspection and monitoring

Professor G S Littlejohn DSc, FEng  
Chairman of the Organising Committee

### Format

The format will include presentations on current issues with many practical examples of ground anchorages and anchored structures in service. The conference will comprise two days of papers and discussions.



## Call for Papers

Prospective authors of papers supporting the specified topics are invited to submit an abstract for this international conference, of up to 500 words by **28th February 2007**.

If you will be submitting a paper for this conference please inform us by e-mailing papers@ice.org.uk indicating which of the conference themes it will fall under along with your full contact details: name, organisation, e-mail, address and telephone number, or by filling out the attached form and sending it back to us. All papers and abstracts should be in English and be sent electronically. Instructions on format should be attached (otherwise please contact us via vidya.gunapala@ice.org.uk).

All abstracts and papers submitted for the conference will be reviewed by the Organising and Technical Committees and those selected will be notified by **1st April 2007**. Draft papers must then be submitted by **31st July 2007**. These will be reviewed by the Organising Committee, and final versions must be received by **14th September 2007** for inclusion in the conference proceedings. All authors will be required to register for the conference in advance, at a reduced fee, and will be invited to present their papers in person.

All papers received by the date will be published as a volume of proceedings on CD and will be available to delegates at the conference.

## Who should attend?

This conference will be of benefit to those involved in ground anchorages or responsible for anchored structures including Civil Engineering and Structural Engineering Consultants, Specialist Geotechnical Contractors and Consultants, Senior Environment Agency Engineers, Senior Engineers in Water Authorities, Dam Owners, Network Rail Engineers, Specialists in Corrosion and Corrosion Monitoring, Tunnelling Engineers and Academics in the fields of geotechnical engineering and non-destructive testing.

## Organising Committee

Professor Stuart Littlejohn, University of Bradford (Chairman)

Malcolm Chappell, AMEC Group Ltd.

Raymond Coe, Black & Veatch Ltd.

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John Graham, Keller Ground Engineering Ltd.

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Paul McBarron, Austress Menard, Australia

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## Exhibition and Sponsorship

Various opportunities are available for sponsorship and exhibition stands providing organisations with the chance to showcase their products to a focused audience.

If you would like more information on the range of exhibition and sponsorship possibilities for this conference please contact Abby on 0207 665 2318

## REGISTRATION OF INTEREST

### I am interested in attending the conference

Please send me further details when available

### I am interested in exhibiting at the conference

Please send me further details when available

### I will send my abstract for consideration

My abstract should be considered for the following topic \_\_\_\_\_

**Note:** Email submissions of abstracts should be written in Word for Windows. Any authors supplying their paper by email are kindly requested to include their full postal address and telephone number.

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### Industry Sector

Geotechnical Engineering  Foundation Engineering  Tunnelling  Mining  Dams

Maritime Engineering  other \_\_\_\_\_

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