

# Measuring with Vision: Developments and Innovations in Optical Metrology for Engineering



BRITISH SOCIETY FOR  
STRAIN MEASUREMENT

## Meeting information

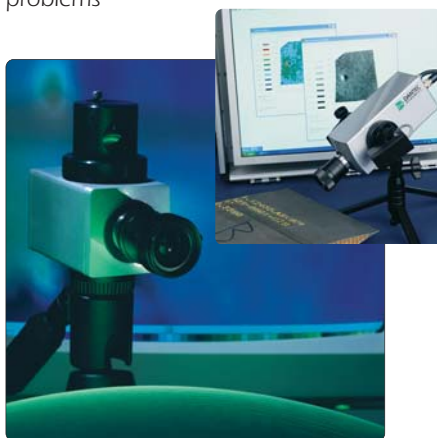
**Date: Thursday 3rd May 2007**

**Venue: BAWA, Bristol**

Optical methods for engineering metrology continue to develop rapidly and their application to research and development in industry and academia is following suit. This seminar is the second of its kind that the BSSM has organised to highlight progress in this interesting and important field of engineering measurement.

The theme of the seminar and exhibition is research developments and the use of optical methods in engineering measurement across a range of applications including fluid flow, modal analysis, component measurement, fracture mechanics and materials testing.

The meeting is intended to showcase recent advances and applications, to stimulate new ideas and to encourage engineers to adopt these methods. The BSSM believes that these will assist engineers and scientists in the constant quest to develop better solutions to new and increasingly complex engineering problems



## Speakers

Prof Fabrice Pierron	ENSAM, Chalons-en-Champagne, France	<a href="http://www.chalons.ensam.fr">www.chalons.ensam.fr</a>
Mr Ralf Lichtenberger	LIMESS, Pforzheim, Germany	<a href="http://www.limess.com">www.limess.com</a>
Dr Russell Coggrave	Phase Vision, Loughborough, UK	<a href="http://www.phasevision.com">www.phasevision.com</a>
Prof Philip Withers	Manchester University, UK	<a href="http://www.sdc.manchester.ac.uk">www.sdc.manchester.ac.uk</a>
Dr Thorsten Siebert	DANTEC Dynamics, Ulm, Germany	<a href="http://www.dantecdynamics.com">www.dantecdynamics.com</a>
Dr Dave Hollis and Dr Sam McDonald	LaVision UK/Manchester University, UK	<a href="http://www.lavision.com">www.lavision.com</a>
Dr Kevin Potter	Imetrum, Bristol, UK	<a href="http://www.imetrum.com">www.imetrum.com</a>

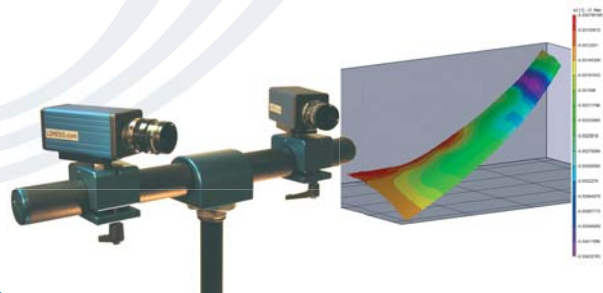
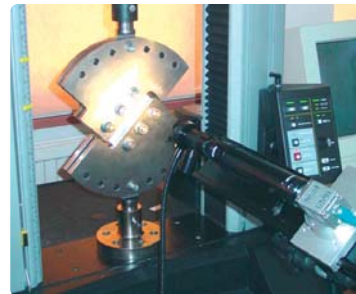
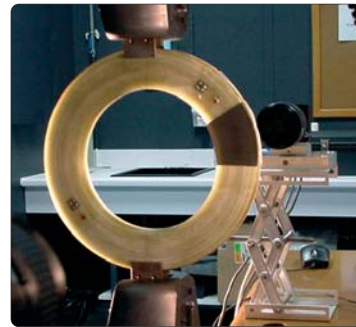
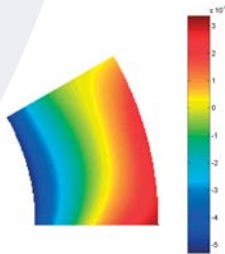
**A BSSM one-day seminar and mini-exhibition**

## Presentations

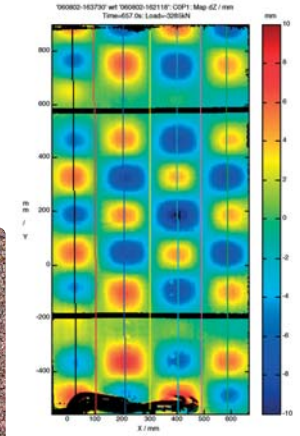
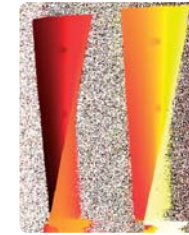
Analysis of full-field measurements for material parameter determination by the Virtual Fields Method	Fabrice Pierron
Modal analysis and strain measurement of periodic events with Digital Image Correlation	Ralf Lichtenberger
Large-scale full-field metrology using projected fringes: some challenges and solutions	Russell Coggrave
Crack monitoring and Stress Intensity Factor determination using Digital Image Correlation	Philip Withers
A glimpse into state-of-the-art of Optical Measurement Technology	Thorsten Siebert
Imaging techniques beyond the surface	Dave Hollis and Sam McDonald
Video Metrology, precision non-contact measurements in the laboratory and in the field	Kevin Potter

## Outline timetable

<b>09:00</b>	Registration
<b>09:30</b>	Presentations
<b>12:30</b>	Lunch and Exhibition
<b>14:30</b>	Presentations
<b>16:00</b>	Discussion session
<b>16:30</b>	Close



## Exhibitors



## Booking information

Please complete, photocopy and return to: John Edwards, BSSM Society Administrator  
22 St Georges Road, Bedford MK40 2LS, Tel/Fax: 01234 347778, e-mail: johnedwards@bssm.org

Name: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

Postcode: \_\_\_\_\_

Tel: \_\_\_\_\_ e-mail: \_\_\_\_\_

### Fees

Delegate rates (+VAT@17.5%)

Member: £110.00 Non-member: £165.00\* Student Member: £50.00

Non-member Student: £75\*

\*The Non-member fee includes membership until 30 September 2007

### Payment by cheque, credit/debit card (not AMEX) or invoice

Please make cheques payable to British Society for Strain Measurement;  
for payments by invoice please quote a purchase order reference number.

Please invoice  Purchase order reference:

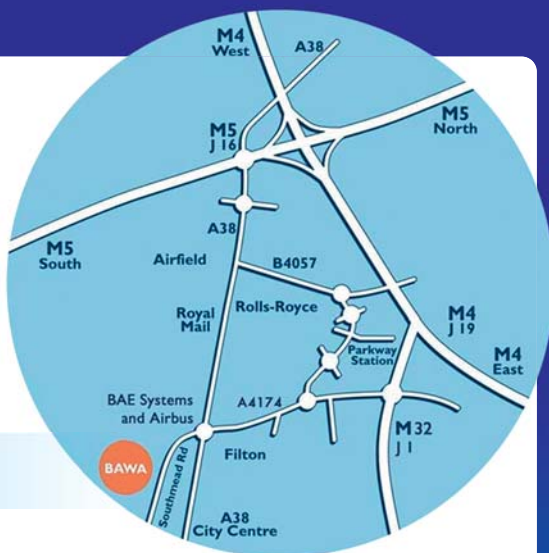
Card No:

Start date: /  Expiry date: /  Issue No. (Switch/Maestro only):

Security code (last three digits on back of card):

## Venue details

**BAWA, 589 Southmead Road, Filton, Bristol, BS34 7RG. Tel: 0117 9768066**



**Getting to BAWA is easy thanks to good transport links from the M4 and M5.**

### Directions for getting to BAWA

#### By Car

Exit the M4 at Junction 19 onto the M32.

Exit the M32 at Junction 1 to join the A4174 towards Filton.

Cross over 2 roundabouts, the 2nd roundabout crossing the A38, onto Southmead Road.

Go through 2 sets of traffic lights, the BAWA sports field will be on your right-hand side.

Turn right into the driveway at the far end of the field.

#### By Train

Use Bristol Parkway station. This is just a couple of miles from BAWA and taxis are easily available. Alternatively, Bristol Temple Meads station is in the city centre.

#### By Bus

If you wish to travel to BAWA by bus please contact First City Line to find out the most suitable service for you. Telephone: 0117 9553231

#### By Plane

Bristol's civil airport, Lulsgate, is south of Filton, approximately 10 miles away. Taxis are available.

**This, and more detailed information, can also be found at:**

**[http://www.bawa.biz/htm/php/driving\\_directions.php](http://www.bawa.biz/htm/php/driving_directions.php)**

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