



UKTA news

Issue 8; January 2000

The newsletter of the UK Thermography Association

A World of Thermography 2000

The International Thermography Conference in Bath, England 9th – 11th March 2000 will include over 30 papers from the full range of thermography applications. Subjects as diverse as 'Infra-red Imaging in Diabetic Foot Ulceration' and 'Infrared Detection and Discoveries in Astronomy' are interspersed with the more usual papers on buildings and NDT. Speakers are coming to England from at least eleven different countries and the delegate list is filling up fast.

The booking office is being run by BSRIA who are increasingly involved in all the aspects of thermography for buildings and their services. Publicity is assisted by the British Institute of NDT, the William Herschel Society and, of course UKTA. Exhibitors booked so far include Flir Systems, Land Infrared, Lambda Photometrics and Instrument Hire. There are still four exhibitor spaces left, but book soon to avoid disappointment.

The social programme includes a civic reception hosted by the Mayor of Bath in the ancient building of the Roman Baths in recognition of William Herschel's life and work in the city. To help celebrate William Herschel's discovery of infrared this is sponsored by **Land Infrared**. The celebration dinner is sponsored by **Flir Systems** at the Pump Room with some of Herschel's descendants and Dr Alan Chapman, an authority on William Herschel and author of books on the Herschel family and other famous scientists.

There will be a display of historic infrared imaging equipment as well as the latest developments from the exhibiting companies. You will be able to see how the hand held imager has developed from the truck or trolley mounted equipment of 30 years ago.

Bookings are coming in fast and leaflets are being distributed but your help is needed. Please tell anyone who may be interested, give them a leaflet and help to make this the best thermography conference yet. – more leaflets available from the UKTA office.

Check the UKTA website, <http://ukta.tripod.com>, regularly for latest information about programme, booking and accommodation.

Herschel Lecture

Every Year the William Herschel Society put on a public lecture to promote understanding of the life and work of William Herschel. This year they celebrate the 200th anniversary of infrared in association with the World of Thermography Conference. Their speaker is Randii Wesson, NASA Instrumentation Scientist in the Mission Operations Section at Caltech's Jet Propulsion Laboratory (JPL) which manages NASA projects that probe the deep space (translunar) environment of our solar system. See their excellent guide to space mission planning at <http://www.jpl.nasa.gov/basics/bsf.htm>

Associations to merge

The UK Thermography Association and the and the Thermology Society of Great Britain are to merge. Neither aims nor names will change, but the TSGB will become a division of UKTA. All members will receive this newsletter and 'Thermology International', the journal of the five European and American Thermology Societies, now in its tenth year.

The term 'Thermology' may be unfamiliar to many UKTA members. It is the term used to describe the scientific study of heat (normally using infrared thermal imaging). It has been used in medical fields for many years, but equally applies to most commercial and industrial thermal imaging applications. Like the Conference this merger should bring benefits to all members through 'cross fertilisation', transfer of the best practice from between applications.



BSRIA

LAND
infrared

FLIR
SYSTEMS

BI
THE BRITISH INSTITUTE OF
NON-DESTRUCTIVE TESTING

Book Reviews

Thermography - The Thermography Monitoring Handbook, Roderick A Thomas Coxmoor Publishing, 1999, ISBN 1 90189 201 8, 190 A5 pages, £35

This is the third book to be published in Coxmoor's Machine and Systems Monitoring Series of eleven after handbooks of vibration and wear debris analysis. It's a book with something for everyone. Starting with an introduction to thermography, it progresses to cover all the basic concepts and theory in 32 A5 pages, enough depth for most practical thermographers.

The next section deals with practical issues such as selection of an appropriate point measuring, line-scan or imaging system. It considers the factors that have to be taken into account when obtaining and interpreting images and briefly considers some of the criteria that should be used to determine the severity of temperature differences in electrical installations. Another section looks in more detail at the types of infrared measuring equipment available, their advantages and disadvantages.

To some, the most useful section will be the applications and case studies, which set out in detail the range and benefits of applications in electrical, mechanical, electronic, energy and even medical applications. The eleven case studies cover a range of industries.

A buyers' guide lists infrared equipment and software manufacturers, consultancy and training organisations. The book finishes with a reference section containing a comprehensive glossary, some emissivity tables, a list of references for further reading and a comprehensive index.

Although, like any technology book, some of the material has been superseded, this book should be on every thermographer's desk and perhaps in the camera case too.

Guidance and the Standard Specification for Thermal Imaging of Non-electrical Building

Services Installations – FMS 6, N Barnard & C Pearson, BSRIA, Feb. 2000, ISBN 0 86022540-2 & 0 86022541-0 70 A4 pages, £35

Also one of a series, this book is the sixth in BSRIA's Facilities Management Specification series and the second on thermal imaging. The Electrical Installations volume, FMS 5, was published in 1999.

The publication comes in two parts. Part one, the specification, is a 9 page document that can be used by a Facilities Manager to specify thermal imaging services. It covers Scope, Management, Safe Working, Measuring Equipment, Measuring Procedures, Evaluation Criteria/Interpretation of Faults and Documentation.

The second part is guidance on the specification. This includes all the background information that the specifier or the thermographer would want on practical thermal imaging in 17 applications from Envelope insulation to Buried services.

One of the most useful features of this book is the number of formulas and data included in the appendixes for estimating heat transfer from the surfaces imaged.

This book and FMS 5 are available to UKTA members UK postage-paid at £25 each.

The Thermography Monitoring Handbook is available to UKTA members UK postage-paid at £30. Other books also available from UKTA

Member Directory

UKTA will be publishing a Member Directory. This will list all current members as of 29th February 2000 (unless any specifically ask to be

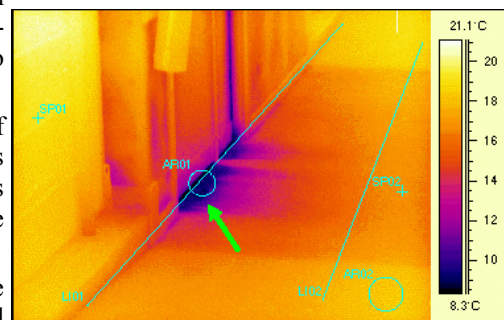
omitted) together with their contact details and areas of work and expertise. This will be made available on request to any enquirers.

Member Handbook

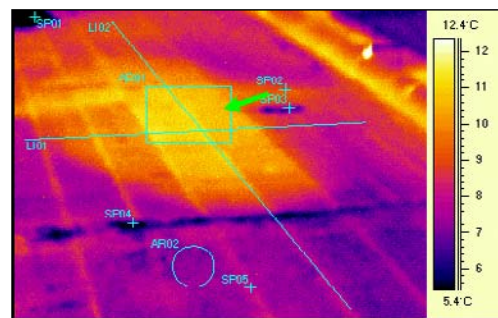
UKTA will also be publishing a Handbook for members giving sources of information and latest updates not available in existing publications. This will only be available to members.

MAINTEC

MAINTEC 2000, the top UK maintenance technology show, will be 28th to 30th March this year. As last year, a technical meeting will be arranged for the morning of 29th March. The topic has yet to be arranged, anyone who would like to make a presentation, please contact the Secretary.



Air infiltration under door



Faulty flat roof

Diary Dates

9-11 March, International Conference, A World of Thermography, Bath, UK

11 March UKTA Committee Meeting

28-30 March, MAINTEC, NEC Birmingham

29 March UKTA Technical Meeting, NEC Birmingham

UKTA mission statement

"UKTA is a professional association dedicated to excellence in all infrared imaging applications, supporting, promoting and expanding infrared imaging and measurement. It is formed to network individuals, organisations and associations in the thermography profession in the UK and the rest of the world. UKTA will form alliances with other associations of similar objective in other countries."

UK Thermography Association c/o BSRIA Old Bracknell Lane West, Bracknell, Berkshire, UK, RG12 7AH
Tel 01344 426511, Fax 01344 487575, e-mail ukta@bsria.co.uk

Officers: Chairman - Dave Dibley, Vice Chairman - Dave Cannon, Treasurer - Peter Pollard,
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