



XIV European Association of Thermology Congress

**“Thermology in Medicine:
Clinical Thermometry and Thermal Imaging”**

4th – 7th July 2018

National Physical Laboratory, Teddington, London

United Kingdom

LONDON 2018

XIV E.A.T. Congress, 4-7 July 

Co-sponsored by:

IPEM Physiological Measurement SIG (www.ipem.ac.uk)

RPS Imaging Science Group (www.rps.org)



www.eurothermology.org

The EAT and the National Physical Laboratory are delighted to invite you to participate in the XIV EAT Congress in Teddington, London, United Kingdom from 4th to 7th July 2018.

The European Association of Thermology exists to promote, support and disseminate research in thermometry and thermal imaging in the fields of human and veterinary medicine and biology. We do this through our peer-reviewed journal *Thermology International*, regional seminars around Europe, and our flagship Congress, which takes place every three years.

Following on from the most recent meetings in Porto (2012) and Madrid (2015), the Congress heads back to northern Europe for 2018 to the National Physical Laboratory (NPL) in the United Kingdom.

The EAT Board looks forward to welcoming you to NPL's world class conference facilities in the summer of 2018.



Dr. Kevin Howell
EAT President

Chair, 2018 EAT Congress Organising Committee

VENUE.



The National Physical Laboratory (NPL) is the United Kingdom's National Measurement Institute and is located in Teddington, south west London, approximately 30 minutes by taxi from Heathrow Airport and a 30 minute train journey from London Waterloo. www.npl.co.uk/location.

NPL's modern lecture theatre can comfortably accommodate more than 100 people. For delegates submitting posters, these can be supplied in A4 portrait format as .pdf files, and will be displayed electronically in NPL's state-of-the-art exhibition area.



LONDON 2018

XIV E.A.T. Congress, 4-7 July **NPL**

XIV EAT CONGRESS 4th – 7th July 2018, NPL.

ORGANISING COMMITTEE.

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KEY DATES.

Abstract submission is now open, with the closing date extended to **15th January 2018**, and authors will be notified of acceptance for oral or poster presentation by 20th February 2018.

15th January 2018. Abstract submission deadline.

20th February 2018. Acceptance notification to authors.

26th February 2018. End of Early Registration and deadline for registration of presenting authors.

UPDATES.

Follow all the latest news in the run-up to the congress via our Twitter feed:



@EAT_London_2018

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KEY MEETING THEMES.

Calibration and traceability in biomedical thermometry
 Infrared thermography in biomedicine
 Contact temperature measurement
 Hardware and software solutions for infrared imaging
 Biomedical applications: surgery, neurology, vascular and pain syndromes
 Thermometry in exercise physiology, rehabilitation, and human performance research
 Temperature measurement in animal welfare, veterinary applications and equine physiology

REGISTRATION FEES

	Early Registration (Until 26 FEB 2018)	Late Registration (After 26 FEB 2018)
EAT/IPEM/RPS MEMBER	£200	£250
Non-Member	£250	£300
Student	£170	£220

Registration includes access to all congress sessions, congress lunch and coffee breaks, and the Congress Gala Dinner. Guided visit to the historic Hampton Court Palace on 7th July for a small additional fee. Register online at the congress registration website from 17th August 2017 at <https://www.regonline.co.uk/XIVEATcongress2018>

ACCOMMODATION

There are a number of hotels within walking distance of the National Physical Laboratory and Teddington railway station, and even more choice within a 15-minute radius by train, taxi or bus. Further information about local hotels can be found at <http://www.npl.co.uk/contact-us/local-hotels>. Early booking in 2018 is advisable!

ACCOMPANYING PERSONS

With central London just 30 minutes away by rail, Teddington is an excellent base for accompanying persons to enjoy the capital city of the UK without the need for an organised tour. All accompanying persons are invited to join the Congress Gala Dinner and social programme upon payment of the appropriate fee.

PROVISIONAL CONGRESS SCHEDULE

Wednesday 4th July (evening):

Registration desk opens, followed by opening keynote address – **"Cardiovascular and thermoregulatory responses to heat therapy"** – Prof. José González-Alonso, Centre for Human Performance, Exercise and Rehabilitation, Brunel University, UK

Welcome drinks reception

Thursday 5th July:

Keynote address – **"The Kelvin redefinition and its implications"** – Prof. Graham Machin, Head of Temperature Standards, National Physical Laboratory, UK

Science sessions – day 1

Evening – EAT 2018 Congress Gala Dinner

Friday 6th July:

Keynote address – **"History of uncooled thermal-imaging technology"** - Dr. Michael F. Tompsett (formerly English Electric Valve Company and AT&T Bell Telephone Laboratory)

Science sessions – day 2

EAT General Assembly

Saturday 7th July:

Guided visit to Hampton Court Palace (morning, additional entrance fee payable)

Close of Congress



European Association of Thermology

Short Course on Medical Thermography

*Wednesday 4th July 2018, National Physical Laboratory,
Teddington, UK*

Following on from successful courses in Porto and Madrid, the next EAT Short Course on Medical Thermography will take place immediately prior to the EAT 2018 Congress at the National Physical Laboratory. The course aims to deliver a thorough introduction over one full teaching day to basic thermal physiology and the principles of infrared thermography for human body surface temperature measurement. It will be taught by an experienced faculty of EAT clinicians, biomedical researchers and imaging scientists, along with metrology experts from NPL. Aspects of reliable thermogram capture will be demonstrated in a laboratory session, and students will have the opportunity to practice thermal image analysis in a supervised “hands-on” session.

Syllabus

- Physical principles of heat transfer
- Principles of thermal physiology/skin blood perfusion
- Standardisation of thermal imaging, recording and analysis
- Quality assurance for thermal imaging systems
- Producing a thermographic report
- Provocation tests
- Image analysis
- Hands-on supervised practice
- Educational resources

Registration

The course fee (inclusive of lunch and coffee breaks) is €200

Register online from 17th August 2017 at www.eurothermology.org/congress2018/course

Questions? Contact Dr. Kevin Howell at k.howell@ucl.ac.uk

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