

## INTRODUCTION

One of the objectives of the European Association of Thermology is to promote the adequate use of thermography in all their application fields.

It is a tradition on the EAT Congresses to organize a training course oriented to those who want to get introduced into the fundamentals of thermography or to anyone who want to extend or review his/her knowledge about thermography.

This year the course has been focused on the medical applications of human thermography. Any professional related with human health is kindly invited to participate in this basic course instructed by acknowledged members of the EAT.

We look forward to seeing you in Madrid in September 2015



Manuel Sillero Quintana  
Director of the course.

## OBJECTIVES

- + To understand the fundamentals of Physics and Physiology affecting the Human Thermography.
- + To get an introduction about the Medical Applications of Thermography.
- + To introduce the attendant to the protocols for the appropriate data collection, analysis and interpretation of the human thermal data.

## COURSE PROGRAM

### Wednesday, 2<sup>nd</sup> September, 2015

8:30 Late registration and accreditation.

9,00 Opening (*Dr. Manuel Sillero*)

9:10 **Principles of physics of Infrared Thermography** (*Dr. Ricardo Vardasca*)

10:10 **Physiological concepts applied to Thermography** (*Dr. James Mercer*)

11:10 COFFEE BREAK

11:30 **Infrared thermography in medicine** (*Dr. Francis Ring*)

12:30 **Provocation test used in medical thermography** (*Dr. Kurt Ammer*)

13:30 LUNCH BREAK.

15:00 **Infrared image analysis and Reporting** (*Dr. Kurt Ammer*)

16:00 SHORT TECHNICAL BREAK.

16:15 **Practical Session: TermoINEF Thermal Imaging Protocol** (*Members of the TermoINEF research team*)

16:45 **Practical Session: Thermogram Recording practice** (*Several teachers of the course*)

17:45 COFFEE BREAK

18:15 **Practical Session: Data collection and Reporting with ThermoCam Reporter** (*Dr. Manuel Sillero*)

19:15 **Examples of medical data interpretation.** (*Several teachers of the course*)

20:15 Closing and distribution of certificates (Manuel Sillero).

**VERY IMPORTANT:** In the practical sessions the students will record each other, so that, during the evening session the student should wear shorts and light clothes to facilitate the data collection.

## COURSE INSTRUCTORS

### Prof. Dr. Francis Ring

University of South Wales, United Kingdom

### Prof. Dr. Kurt Ammer

University of South Wales, United Kingdom  
EAT Treasurer, Austria

### Prof. Dr. James Mercer

University of Tromsø, EAT President, Norway

### Dr. Ricardo Vardasca

University of Porto, Portugal

### Prof. Dr. Manuel Sillero Quintana

Technical University of Madrid, Spain.

### Members of the TermoINEF

(Research team of the Sports Department)  
Technical University of Madrid, Spain.

**Note:** Lectures and practical training will be in English.

## ACADEMIC CERTIFICATE

A certificate of attendance to 8,5 lecture hours will be provided by the Technical University of Madrid (UPM) and the European Association of Thermology (EAT).

## INSCRIPTION PROTOCOL

+ The inscription will be on-line in the link:

<https://docs.google.com/forms/d/1ZHj4Uc3ipkSiG268n2OnZ1pqd4re8qRADMpgVFgZEUU/viewform?c=0&w=1>

NOTE: This link will be available only until 30th of July. After this date, any inscription will be done in cash at the reception desk. Please, notify your interest (see below).

**VERY IMPORTANT:** The inscription will be confirmed when the on-line inscription form is completed and sent, and after a proof of the payment is received in the email:

**eatmadrid2015@gmail.com**

### FURTHER INFORMACIÓN:

Mobile: +34-687044034 (Manuel Sillero)  
eatmadrid2015@gmail.com

## COURSE FEES

	Until 1 <sup>st</sup> of July	After 1 <sup>st</sup> of July
<b>EAT MEMBERS</b>	180 €	220 €
<b>NON EAT MEMBERS</b>	220 €	260 €

+ **Course fee includes the lunch and the coffee breaks in the INEF's cafeteria.**

+ Inscriptions on the day of the course will be possible only in case of vacancies. Please contact with the organization first. Mobile +34687044034 (Manuel Sillero) or eatmadrid2015@gmail.com.

IMPORTANT: The minimum number of attendants will be 10. If the 1st of July the number is below this limit, the course maybe cancelled and the attendants will be contacted to be informed about the cancelation.

## COURSE VENUE

**Faculty of Physical Activity and Sport Sciences (INEF Madrid).**

**C/Martín Fierro, nº7 – 28040 - Ciudad Universitaria, Madrid, Spain**



## PAYMENT

1<sup>st</sup>) Transfer the congress fee to the account:  
**IBAN:** ES74-0065-0100-12-0031000262;  
**SWIFT:** BARCESMM (Barklays Bank)

Important information for the bank transfer:  
**Sender:** Name and surame of the attendant.  
**Reciever:** UPM-OTT

**Concept:** P131110231 + Name + ID or  
Passport number (Example: P131110231  
Manuel Sillero 52XXX794Z)

2<sup>nd</sup>) Send the proof of payment to the email:  
**eatmadrid2015@gmail.com**

**Organizers:** Technical University of Madrid (UPM) and the European Association of Thermology (EAT)



## Medical applications of human thermography (Pre-Congress Course)

**Date:** Wednesday, 2<sup>nd</sup> September de 2015.

**Duration:** 8.5 hours.

**Venue:** Faculty of Physical Activity and Sport Sciences (INEF de Madrid).

A certificate of attendance to 8,5 lecture hours will be provided by the Technical University of Madrid (UPM) and the European Association of Thermology (EAT).

**Organize:**



**More info:** Manuel Sillero: +34-687044034  
eatmadrid2015@gmail.com