



Friday 6th September 2024.

EAT Short Course on Medical Thermography.

18.00 – 20.00 Welcome Drinks and Registration for XVI Congress of the EAT.

Saturday 7th September 2024.

08.00 – 08.45 Registration for XVI Congress of the EAT.

09.00 Opening of Congress: Welcome to the XVI Congress of the European Association of Thermology.

Dr. Maria Soroko-Dubrovina (Chair, Local Organising Committee, Faculty of Biology and Animal Science, Wrocław University of Environmental and Life Sciences).

Dr. Kevin Howell (President, European Association of Thermology).

09.15 Medicine and biomedical research 1 (Chairs: Adérito Seixas and James Mercer).

09.15 LONGITUDINAL EVALUATION OF ORAL MUCOSITIS LESIONS BY INFRARED THERMOGRAPHY: A CASE SERIES. Thomas Miliou (Brazil).

09.30 INTERPRETATION OF BODY TEMPERATURE AND OXYGEN SATURATION BASED ON INDIVIDUAL NORMAL RANGES IN HABITUAL CONDITION: A STEP FORWARD FOR APPLIED PRECISION MEDICINE. Märta Sund Levander (Sweden).

09.45 DYNAMIC INFRARED THERMOGRAPHY (IRT) AND INDOCYANINE GREEN FLUORESCENCE ANGIOGRAPHY (ICG-FA) COMPARED TO THE GOLD STANDARD COMPUTED TOMOGRAPHY ANGIOGRAPHY (CTA) IN PREOPERATIVE PERFORATOR MAPPING IN AUTOLOGOUS BREAST RECONSTRUCTION. James Mercer (Norway).

10.00 TECHNOSTRESS DETECTION THROUGH FACIAL DYNAMIC THERMOGRAPHY. David Perpetuini (Italy).

10.15 UTILITY OF THERMOGRAPHY FOR ASSESSMENT OF NECROTIZING ENTEROCOLITIS IN PRETERM INFANTS. Walusa Goncalves-Ferri (Brazil).

10.30 Coffee.

11.00 Sport and rehabilitation (Chairs: Manuel Sillero-Quintana and Jose Priego-Quesada).

11.00 HIGH-SPEED RUNNING (HSR) ACTIONS HAVE AN IMPACT ON THE SKIN RESPONSE OF PROFESSIONAL FOOTBALL PLAYERS AFTER COMPETITION Víctor-Luis Escamilla-Galindo (Spain).

11.15 SKIN TEMPERATURE, BLOOD AMMONIA, AND LACTATE RESPONSE DURING INCREMENTAL EXERCISE UNTIL EXHAUSTION IN ELITE ATHLETES. Paweł Korman (Poland).

11.30 THERMOGRAPHIC AND ULTRASOUND FINDINGS OF PATIENTS WITH PAIN OF KNEE JOINTS: RETROSPECTIVE STUDY FROM JANUARY 2010 TO JULY 2023. Jozef Gabrhel (Slovakia).

11.45 THE DIFFERENCE ON SKIN TEMPERATURE RESPONSES BETWEEN AN EXERCISE WITH AND WITHOUT MUSCLE DAMAGE. Jose Priego-Quesada (Spain).

12.00 INFLUENCE OF CENTRAL NERVOUS SYSTEM ACTIVATION ON LOWER LIMBS SKIN TEMPERATURE AFTER A RESISTANCE TRAINING. Manuel Sillero-Quintana (Spain).

12.15 Poster viewing.

Posters (Chairs: Kevin Howell and James Mercer).

THE ROLE OF INFRARED THERMOGRAPHY IN ASSESSMENT OF THE PHOTOTHERMAL EFFECT OF CLASS IV LASER THERAPY IN HORSES. Karolina Śniegucka (Poland).

DO CHARACTERISTICS OF RIDERS INFLUENCE HEART RATE AND BODY SURFACE TEMPERATURE OF LIPIZZAN HORSES AFTER GRADED EXERCISE LOAD? Nina Čebulj-Kadunc (Slovenia).

ARE THERE THERMAL AND PERFORMANCE-RELATED ASYMMETRIES BETWEEN THE PREFERRED AND NON-PREFERRED LEG IN HEALTHY AMATEUR SOCCER PLAYERS? Lukas Verderber (Germany).

UTILITY OF THERMOGRAPHY IN THE EARLY DIAGNOSIS OF CATHETER SEPSIS IN A PEDIATRIC INTENSIVE CARE UNIT IN URUGUAY. Thomas Miliou (Uruguay).

FEET TEMPERATURE IN MAXIMUM ERGOMETRIC TEST: A PRELIMINARY STUDY. Thomas Miliou (Brazil).

DEVELOPMENT OF A VASCULAR OPTICS AND MICROVASCULAR SENSING RESEARCH FACILITY – THE COVENTRY UNIVERSITY EXPERIENCE. John Allen (United Kingdom).

RELATIONSHIP BETWEEN SKIN TEMPERATURE AND MUSCLE OXYGEN SATURATION DURING VOLUNTARY EXERCISE FOR KNEE EXTENSORS. Jose Priego-Quesada (Spain).

CORTISOL LEVEL AND EYEBALL TEMPERATURE IN DOGS WORKING IN ANIMAL-ASSISTED EDUCATION. Anna Budny-Walczak (Poland).

DYNAMIC THERMOGRAPHY USED TO SUPPORT THE DIAGNOSIS OF DIABETIC FOOT WITH THE ASSESMENT OF BALANCE AND FOOT POSITIONING. Agnieszka Lisowska-Lis (Poland).

NORMATIVE SKIN TEMPERATURE VALUES AND GENDER DIFFERENCES IN A HEALTHY AND YOUNG SAMPLE: INFRARED THERMOGRAPHY ANALYSIS OF OVER 3,600 SUBJECTS. Ismael Fernández-Cuevas (Spain).

13.00 Lunch.

13.45 Animals (Chairs: Maria Soroko-Dubrovina and Dominic McCafferty).

13.45 **KEYNOTE** THERMAL IMAGING IN CAPTIVE AND WILD ANIMALS:
APPLICATIONS AND FUTURE DIRECTIONS.

*Dr. Dominic McCafferty, Senior Lecturer, Scottish Centre for Ecology and the
Natural Environment, University of Glasgow. (United Kingdom).*

- 14.30 THE EFFECT OF LOW AND HIGH HEEL SYNDROME ON INFRARED THERMOGRAPHIC IMAGES OF THE FORELIMB OF THOROUGHBREED RACEHORSES. Wanda Gorniak (Poland).
- 14.45 APPLICATION OF INFRARED THERMOGRAPHY IN THE ASSESSMENT OF BEMER PHYSICAL VASCULAR THERAPY ON BODY SURFACE TEMPERATURE CHANGES IN RACING THOROUGHBREDS. Maria Soroko-Dubrovina (Poland).
- 15.00 USEFULNESS OF INFRARED THERMOGRAPHY IN CLINICAL FOLLOW-UP IN BITES WITH POISONOUS ANIMALS IN URUGUAY. Thomas Miliou (Uruguay).
- 15.15 THERMOGRAPHY AS A METHOD FOR THE EARLY DETECTION OF ORTHOPEDIC INJURY IN THE FORE LIMBS DURING THE TRAINING OF 2-YEAR-OLD THOROUGHBRED RACE HORSES. Karolina Śniegućka (Poland).

15.30 Tea.

16.00 Instrumentation, quality assurance and technology (Chairs: Peter Plassmann and Kevin Howell).

- 16.00 THE IMPORTANCE OF QUALITY ASSURANCE IN CLINICAL THERMOGRAPHY: A CASE STUDY. Georgina Parsons (United Kingdom).
- 16.15 A PRELIMINARY EVALUATION OF THE LOW-COST HIKMICRO POCKET 2 IR CAMERA FOR ITS SUITABILITY IN MEDICAL THERMOGRAPHY – A CROSS-COMPARATIVE STUDY. James Mercer (Norway).
- 16.30 THE PRACTICAL PROBLEMS OF INTRODUCING IR TECHNOLOGY INTO HEALTH SERVICES. Peter Plassmann (United Kingdom).

16.45 Close of Day 1 sessions.

17.00-18.00 GENERAL ASSEMBLY OF THE EUROPEAN ASSOCIATION OF THERMOLOGY.

19.30 – 22.30 GALA DINNER.

Sunday 8th September 2024.

09.30 Medicine and biomedical research 2 (Chairs: Adérito Seixas and John Allen).

- 09.30 INVESTIGATION OF THE IMPACT OF THE ROBOTIC TOUCH TEMPERATURE ON HUMAN ENGAGEMENT DURING INTERACTIONS WITH THE NAO ROBOT. David Perpetuini (Italy).
- 09.45 UTILIZING THERMOGRAPHY AS AN EFFECTIVE TOOL FOR OPTIMIZING HEMODYNAMIC MANAGEMENT IN PRETERM INFANTS. Walusa Goncalves-Ferri (Brazil).
- 10.00 THE POTENTIAL OF GYNECOLOGICAL AND ENDOCRINOLOGICAL THERMOGRAPHY. ENDOMETRIOSIS: A NEW PERSPECTIVE. Zoltan Pusztai (Hungary).
- 10.15 ASSOCIATION BETWEEN SKIN TEMPERATURE AND PLANTAR PRESSURE IN THE FOREFOOT OF PATIENTS WITH DIABETES. Adérito Seixas (Portugal).
- 10.30 Coffee.

11.00 PREVENTING DIABETIC FOOT ULCERS BY IR IMAGING - AN UPDATE. Ben Kluwe (United Kingdom).

11.15 SEX, DRUGS & ROCK N' ROLL WITH INFRARED THERMAL IMAGING. Ricardo Vardasca (Portugal).

11.30 Awards ceremony:

THE FRANCIS RING PRIZE, SUPPORTED BY THE JOURNAL OF THERMAL BIOLOGY.

THE KURT AMMER PRIZE, SUPPORTED BY THERMOHUMAN.

11.45 Close of Congress.

12.00 Lunch.

14.00 – 16.00 WALKING TOUR OF WROCŁAW OLD TOWN (meet at the “whipping post”, Wrocław Market Square).