2017

September 15th -17th, 2017 AAT Annual Meeting in Greenville, South Carolina, USA

September 15th , 2017 AAT Physician Member Certification Qualification

Course Outline

• Didactic Training and Educational Presentations on:

- Paradigms of care and patient care algorithms for diagnosis and treatment
- Clinical Objective Criteria for Related NMSK Disorders (areas of specific interest will be audience focused)
- Clinical Approach to Vasomotor Pain Syndromes Thermographic Vasomotor Mapping and Differential Diagnosis Sympathetic Skin Response Generators Studies and RSD Look Alikes
- AAT Clinical Guidelines for the Use and Applications of NMSK Thermography
- AAT Clinical Guidelines on Breast Thermography
- AAT Clinical Guidelines on Oral-Systemic Thermography
- Thermography Specific Uses and Applications
- Review of NMSK, Breast, and Oral-Systemic Thermographic Test Protocols
- Reading of NMSK, Breast, and Oral-Systemic Thermographic Studies
- Interpretation of NMSK, Breast, and Oral-Systemic Thermographic Findings
- Report Generation for Thermal Imaging Studies
- Individually Directed Break Out Sessions

• Administrative and Office Based Thermography Issues: Third PartyCoverage issues

- Workers Compensation Coverage Patient Support Groups Professional Staffing and Training
- Professional Associations (American Academy of Thermology) Future Developments for Thermal Imaging
- • Resource Materials to be Provided to Participants
 - Articles, Publications, Journals
 - Certificate of Participation

2017 Program and Events

Saturday, September 16th, 2017

08:00am - Registration

08:30am - Welcoming Remarks

Jeffrey Lefko, Greenville, SC, Executive Director, American Academy of Thermology

8:35-9:20am *Keynote Address*: Thermal Patterns in Disease and Condition Monitoring

Marcos Brioschi, M.D., Professor of the Department of Neurology, Hospital das Clinicas da Universidade de São Paulo, Brazil. 9:20am - 10:45am Session 1: Community Education - Promulgating Thermal Imaging Inside and Outside

9:20am-9:40am	Update on the AAT Thermography Atlas of Medical Conditions Jan Crawford, BSN, Member, AAT Board of Directors
9:40-10:00am	Equilibration and Cold Challenge Testing Techniques Robert Schwartz, MD, Greenville, SC, Chairman, American Academy of Thermology
10:00am-10:30am	Bridging the Thermography Gap-Public and Physician Outreach Christine Horner, MD, San Diego, CA, Member, AAT Board of Directors
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-10:30-10:45am Panel Discussion

10:45am -11:15am Break

11:15am -12:30 pm Session 2: Advancements in Infrared Imaging Cameras, Equipment, and Translational Applications

11:15-11:30pm Physics-Importance of Sensivity in Camera Selection Robert Schwartz, MD, Chairman, AAT Board of Directors

11:30-11:50am Adsorption/Absorption Thermography-Concurrent Use with Steam for Finger Print Identification Michael L. Myrick, PhD., Professor, Department of Chemistry and Bioc hemistry, University of South Carolina, Columbia, SC

11:50am-12:20pm Forensic and Sports Medicine Applications for Thermal Imaging Marcos Brioschi, MD, President of Brazilian Medical Thermology Association

Q&A/ Panel Discussion

12:30pm - Lunch (provided)

- 1:30pm -3:00pm Session 3: Clinicians Corner: Thermography as an Extension of the Physical Exam for Use in Diagnosis and Treatment
- 1:30-2:00pm Breast Cancer Prevention Christine Horner, MD, Member, AAT Board of Directors
- 2:00-2:20PM Integrating a Thermal Imaging Lab Within a

Medical Practice: Clinical Applications and Practical Pitfalls George Schakaraschwili, MD, Aurora, CO, AAT Atlas Editor

- 2:20-2:40PM How I Learned to do Interpretations Eric Ehle, DO, Amarillo, TX, Member, AAT
- 2:40-3:00pm Thermal Imaging: How It Changed My Approach to Patient Care Matthew Terzella, MD, Greenville, SC, Member, AAT

Panel Discussion

3:00pm - Break

3:30pm -5:00pm Session 4: Thermal Imaging Advances and Development Issues and Challenges

- 3:30-4:00pm "Picture This.." The Independent Technician's Role in Properly Conducting Exams Which Contribute to Physician Diagnostic Information Jan Crawford, BSN, Member, AAT Board of Directors
- 4:00- 4:20pm Thermal Images among Different Animals Dr. Tracy Turner, DVM, Elk River, MN, Member, AAT Board of Directors
- 4:20-4:40pm Use of Thermographic Imaging: An Internist's Perspective Tashof Bernton, MD, Aurora, CO, Member, AAT Board of Directors

4:40-5:00pm Integration of Thermography into PMR,

Educational Components of Medical Residency Programs Bryan O'Young, MD, Geisinger, PA., President, AAT Board of Directors Sam Wu, MD, Geisinger, PA., Member, AAT Board of Directors

5:00pm - Annual Scientific Session Wrap Up and Remarks

5:30pm - Session Ends

Shuttle back to Crowne Plaza Hotel

6:30- 7:30pm - Meet and Mingle Reception with the Leadership at the Crowne Plaza Hotel

Presentation of AAT 2017Achievement Award

Sunday September 17th, 2017 Committee Meetings

07:30am - Shuttle from Crowne Plaza Hotel

08:00am - SPECIAL THERMOGRAPHERS WORK-SHOP: How to Build and Grow Your Thermology Practice - Open for all Attendees

Marketing/Promotion/ Communication Tactics and Plans Office Practice Issues and Challenges Website Development Q&A Session Networking, Information Exchange

09:30am -10:30am Open General Session (for all attendees)

Topics to be Discussed -Membership, Education, Advocacy, Website Development

10.30 Shuttle returns to Crowne Plaza Hotel

10:45am - 12:45pm Board of Directors Meeting (Board Members Only)

Further information

American Academy of Thermology

500 Duvall Drive

Greenville, SC 29607

Info@aathermology.org

website: http://aathermology.org/annual-session-program/

September 27th - 29th, 2017 14th AITA 2017 (International Workshop on Advanced Infrared Technology and Applications) in Québec City, Canada *Conference venu*e: Université Laval

In the 14th AITA edition, special emphasis will be given to the following topics:

Advanced technology and materials Smart and fiber-optic sensors Thermo-fluid dynamics

Biomedical applications

Environmental monitoring Aerospace and industrial applications Nanophotonics and Nanotechnologies Astronomy and Earth observation Non-destructive tests and evaluation Systems and applications for the cultural heritage Image processing and data analysis Near-, mid-, and far infrared systems

AITA 2017 is pleased to announce the following keynote speakers:

Dr. Paolo Bison, CNR - ITC, Italy on "IR thermography applied to assess thermophysical properties of Thermal Barrier Coatings".

Dr. Roman Maev, University of Windsor, Canada on "Cultural Heritage, an IR Perspective".

Dr. Andreas Mandelis, University of Toronto, Canada on "Photothermal Coherence Tomography (PCT): Three-Dimensional Imaging Principles and Non-Invasive Biomedical, Dental and Engineering Materials NDI Applications"

Information: http://aita2017.gel.ulaval.ca/home/

AITA Secretariat e-mail: quebec@gel.ulaval.ca

29th September 2017

Developments in Microvascular Imaging at IPEM inYork, UK

This meeting intends to bring together and promote discussion between clinicians and academics of the microvascular imaging community.

Full details

including the programme and online registration can be found on our website here:

https://www.ipem.ac.uk/ConferencesEvents/Forthcoming Conferences/EventDetails.aspx?dateid=402

For any queries, email conferences@ipem.ac.uk or ring +44 (0)1904 550598.

18th-20th October 2017 VipIMAGE2017, VI ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing in Porto, Portugal

Thematic Sessions

Application of Image Analysis in Musculoskeletal Radiology Organizers: Silvana Dellepiane, Universita' decli Studi di Genova, Italy

Silvana Dellepiane, Universita' degli Studi di Genova, Italy Angel Alberich-Bayarri, QUIBIM SL - Quantitative Imaging Biomarkers in Medicine, Spain Waldir Leite Roque, Universidade Federal da Paraíba, Brazil Zbislaw Tabor, Cracow University of Technology, Poland

Computer Vision in Robotics Organizers: António J. R. Neves, Universidade de Aveiro, Portugal Luís Teixeira, Universidade do Porto, Portugal

Computational vision and image processing applied to Dental Medicine Organizers: André Correia, Catholic University of Portugal, Portugal J.C. Reis Campos, University of Porto, Portugal

Infrared Thermal Imaging in Biomedicine

Mário Vaz, University of Porto, Portugal

Organizers: Ricardo Vardasca, Joaquim Gabriel, Faculdade de Engenharia, Universidade do Porto Rua Dr. Roberto Frias S/N, 4200-465 Porto, Portugal Emails: rvardasca@fe.up.pt, jgabriel@fe.up.p

Imaging and Image processing in Ophthalmology Organizers:

Radim Kolar, Brno University of Technology, Czech Republic Koen Vermeer, Rotterdam Ophthalmic Institute, The Netherlands Jolita Bernataviciene, Vilnius University, Lithuania Povilas Treigys, Vilnius University, Lithuania

Imaging of Flows in Lab-on-Chip Devices: trends and challenges Organizers: Susana Catarino, University of Minho, Portugal Rui Lima, University of Minho, Portugal Graça Minas, University of Minho, Portugal Mónica Oliveira, The University of Strathclyde, UK

Advances in Lung CT Image Processing Organizers:

Paulo Eduardo Ambrósio, Universidade Estadual de Santa Cruz, Brazil Marcelo Costa Oliveira, Universidade Federal de Alagoas, Brazil Susana Marrero Iglesias, Universidade Estadual de Santa Cruz, Brazil

Emotions classification from EEG signals Organizers:

Paolo Di Giamberardino, Sapienza University of Rome, Italy Daniela Iacoviello, Sapienza University of Rome, Italy Giuseppe Placidi, University of L'Aquila, Italy

Imaging and Simulation Techniques for Cardiovascular Diseases

Organizers: A J Narracott, University of Sheffield, UK

J W Fenner, University of Sheffield, UK

Meta-learning in Deep Learning: New Trends and Directions Organizers: André Carlos Carvalho, Universidade de São Paulo, Brazil João Paulo Papa, Universidade Estadual de São Paulo, Brazil Carlos Manuel Milheiro de Oliveira Pinto Soares, Universidade do Porto, Portugal Claudio Rebelo de Sá, Universiteit Leiden, The Netherlands

Image Analysis and Machine Learning for Skin Ulcers Organizers: Sylvie Treuillet, Ecole Polytechnique de Université d'Orléans, France Benjamín Castañeda Aphan, Pontificia Universidad Católica del Perú, Perú July Andrea Galeano Zea, ITM Laboratory of Advanced Materials and Energy, Colombia Advanced Techniques for Image-based Numerical Simulation

in Biomedical Applications Organizers: Domenico Borzacchiello, Ecole Centrale de Nantes, France Luisa Silva, Ecole Centrale de Nantes, France David Gonzalez, University of Zaragoza, Spain

Shape Analysis in Medical Imaging: From Math to Clinics Organizers:

Paolo Piras, Sapienza Università di Roma, Italy Paolo Emilio Puddu, Sapienza Università di Roma, Italy Luciano Teresi, University Roma TRE, Italy Valerio Varano, University Roma TRE, Italy

Bio-inspired Computing in Medical Image and Data Analysis Organizers:

Amit Joshi, Sabar Institute of Technology for Girls, India Nilanjan Dey, Techno India College of Technology, India

The proceedings book will be published by Springer under the book series "Lecture Notes in Computational Vision and Biomechanics" and indexed by Elsevier Scopus

A special issue of the Taylor & Francis international journal "Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization", indexed in ISI Thomson Reuters, Elsevier Scopus and dblp, will be published. All authors of works presented in VipIMAGE 2017 will be invited to submit an extended version to the special issue

Further information

Www.fe.up.pt/vipimage Web.fe.up.pt/~vipimage/nav/conference/sessions.htm

2018

13th - 15th April 2018

XXII Meeting of the Polish Society of Medical Thermography Combined with The European Association of Thermology, Zakopane, Poland

All are warmly invited to the annual meeting in Zakopane.

Conference venue:

"HYRNY" Hotel, Pilsudskiego str. 20, Zakopane

Abstract form will be published in Thermology International Abstract should be submitted to a.jung@spencer.com.pl.

Abstract deadline is 15thMarch 2018

Registration fee:

Accommodation (2 nights) / meals, welcome dinner 120 E per person (participant, accompaning person) will be paid in cash/credit card on arrival in hotel reception.

EARLY RESERVATION FOR ACCOMMODATION before March 15th to ensure hotel reservation by email:

a.jung@spencer.com.pl

Scientific Committee

Dr Kevin Hovell Ph.D (UK) Prof.Kurt Ammer MD,Ph.D (AUT) Prof.Sillero-Quintana Manuel Ph.D (SPA) Aderito Seixas MSc. (POR) Prof. Ricardo Vardasca Ph.D (POR) Prof.Boguslaw Wiecek Ph.D,Eng (Poland) Prof.Francis Ring Dsc (UK) Prof.Anna Jung MD,Ph.D (Poland) Prof.Antoni Nowakowski Ph.D,Eng (Poland) Dr.Janusz Zuber MD,Ph.D (Poland) Prof.Armand Cholewka Ph.D, Eng (Poland)

PROGRAMME AT A GLANCE.

13th April, Friday - 7 p.m. Welcome Dinner (HYRNY Hotel)

14th April, Saturday 9.00 - 11.00 Session I 11.00 - 11.20 Coffee break 11.20 -13.00 Session II 13.00 - 14.15 Lunch 14.30 - 16.00 Session III 16.00 - 16.15 Coffee break

16.15 - 18.00 EAT board meeting

24th - 29th June 2018 QIRT 2018 in Berlin ; Germany 14th Quantitative Infrared Thermography Conference

Venue :

Bundesanstalt für Materialforschung und - prüfung (BAM) in Berlin-Adlershof and Ramada Hotel, Berlin Alexanderplatz

Contact:

German Society for Non-Destructive Testing (DGZfP e.V) Steffi Dehlau Email: tagungen@dgzfp.de

QIRT Conferences http://qirt.gel.ilaval.ca QIRT 2018: www.qirt2018.de



CALL FOR ABSTRACTS

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



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

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.

LONDON 2018 MV E.A.T. Congress, 4-7 July NPLS

ORGANISING COMMITTEE.

Kevin Howell (GBR), Chair Kurt Ammer (AUT) Roger Hughes (GBR, NPL) Anna Jung (POL) Graham Machin (GBR, NPL) Francis Ring (GBR) Adérito Seixas (POR) Rob Simpson (GBR, NPL) Manuel Sillero-Quintana (SPA) Ricardo Vardasca (POR)

INTERNATIONAL SCIENTIFIC

COMMITTEE.

John Allen (GBR) Kurt Ammer (AUT) Damiano Formenti (ITA) Kevin Howell (GBR) Anna Jung (POL) Graham Machin (GBR) James Mercer (NOR) David Pascoe (USA) Igor Pušnik (SLO) Francis Ring (GBR) Manuel Sillero-Quintana (SPA) Adérito Seixas (POR) Maria Soroko (POL) Rob Simpson (GBR) Dieter Taubert (GER) Rod Thomas (GBR) Ricardo Vardasca (POR)

KEY DATES.

Abstract submission will open online on 17th August 2017, and authors will be notified of acceptance for oral or poster presentation by 29th January 2018.

17th August 2017. Opening of abstract submission and registration.
29th November 2017. Abstract submission deadline
29th January 2018. Acceptance notification to authors.
26th February 2018. End of Early Registration and deadline for registration of presenting authors.



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

	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 FEES

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.



ABSTRACT SUBMISSION

Online abstract submission opens at <u>www.eurothermology.org/congress2018</u> on 7th August and closes on 29th November 2017. Abstracts should be limited to a maximum of two sides of A4, using the template supplied online. All abstracts will be peer reviewed by the International Scientific Committee, with the decision on acceptance notified by 29th January 2018. The Committee reserves the right to allocate abstracts to oral or poster presentation, but will consider any preference expressed at the time of submission.

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:

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



Thermology international 27/3 (2017)