

Meetings

September 10 - 13, 2013, Turin

AITA 2013 - 12th International Workshop on Advanced Infrared Technology and Applications

Venue: Castello del Valentino , Politecnico di Torino, Viale Mattioli, 39 - 10125 Turin

PRELIMINARY PROGRAMME

Wednesday, September 11

Opening Session

- 09.00 Institutional Greetings from: Prof. Marco Gilli -Rector of the Politecnico di Torino
Welcome from AITA Chair, Co-chair and Organizers: L. Abbozzo Ronchi, P. Bison, C. Corsi, I. Pippi, O. Salvetti, M. Strojnik, M. Volinia
- 09.30 *C. Corsi (invited lectur)* New frontiers for infrared

Session: Advanced Sensors

- 10.00 *D. De Sousa Meneses, M. Eckes, B. Bowry, L. del Campo, P. Echegut:* High temperature Infrared spectrometer
- 10.20 *M. Alyoruk, Y. Ergun, M. Hostut* AlSb Layer Thickness Effect on HH-LH Splitting and Band Gap Energies in InAs/AlSb/GaSb Type-II Superlattices
- 10.40 *A. Ordonez Müller, A. Kroll:* Effects of beam divergence in hand-held TDLAS sensors on long distance gas concentration measurements
- 11.00 Coffee Break

Session: Advanced Technologies and Materials - Part I

- 11.20 *F. D'Amato, A. Montori, M. De Pas, M. Giuntini, M. Siciliani de Cumis, S. Viciani:* A constant intensity technique to improve the performances of devices based on direct absorption spectroscopy
- 11.40 *A. Mazjoud, L. Ibos, J. Dumoulin:* Detection of buried thin geometrical structure in a plaster layer by active infrared thermography
- 12.00 *Abd El-Naser A. Mohamed, Imbaby I. Mahmoud, Ahmed Nabih Zaki Rasheed, Mohamed S. El Tokhy, Osama H. Elgzar:* Radiation induced thermal effects and effects of bending on power attenuations in deformed polymer optical fibers
- 12.20 *Abdulrazak A.S. Mohammed, Safaa M. Hameed:* A new formula to evaluate the band width of an image for a digital camera
- 12.40 *Imbaby I. Mahmoud, Abd El-Naser A. Mohamed, Ahmed Nabih Zaki Rasheed, Mohamed S. El Tokhy, Osama H. Elgzar:* Modeling of radiation induced attenuation and its recovery in optical fibers
- 13.00 *Herchang Ay, Bing-Yan Wu:* A Study of enhanced heat transfer for a plate-fin heat sink by operating two piezoelectric fans
- 13.20 Lunch

Session: Nanotechnologies

- 14.20 *P. Gori, L. Matthes, O. Pulci, F. Bechstedt* Infrared absorbance of graphene, silicene and germanene
- 14.40 *M. D'Acunto, A. Benassi, A. Cricenti, M. Luce D. Moroni, O. Salvetti:* NIR response of gold nanoparticles for biological detection
- 15.00 *P.A. Hobson, P. Andrew, B.T. Hallam, C.R. Lawrence* Infrared resonant absorption by coupled surface plasmon modes in an ultra-thin nanostructured microcavity
- 15.20 *E. Kennedy, R. Al-Majmaie, M. Al-Rubeai, D. Zerulla, J. H. Rice* Infrared nanoscopy of cells for nanoscale therapeutic agent localization
- 15.40 *D. Chauban, N. Singhvi, R. Singh* Role of nanolayer and aggregation of dispersed metal oxide particles in enhancement of effective thermal conductivity of nanofluids
- 16.00 *F. Vitali, V. Foglietti, D. Lorenzetti, E. Cianci, F. Ghinassi, A. Harutyunyan, C. Riverol, L. Riverol, S. Antonucci* Nanotechnology applied to silicon grism, for high-resolution infrared spectroscopy in astronomy
- 16.20 Coffee Break

Session: Cultural Heritage

- 16.40 *A. Bendada, S. Sfarra, C. Ibarra-Castanedo, M. Akhloufi, J.-P. Caumes, C. Pradere, J.C. Batsale, D. Paoletti, X. Maldague* Subsurface imaging for panel paintings inspection, passing through the ultraviolet, the visible, the infrared and the terahertz spectra
- 17.00 *G. Cadelano, P. Bison, A. Bortolin, G. Ferrarini, M. Girotto, F. Peron, M. Volinia* Conservation of historical frescoes by timed infrared imaging analysis
- 17.20 *S. Sfarra, C. Ibarra-Castanedo, E. Marcucci, A. Bendada, D. Ambrosini, D. Paoletti, X. Maldague* From the laboratory to the in situ inspection: active and hybrid infrared thermography approaches as aid for the consolidation of mosaics
- 17.40 *A. Tavukçuoğlu, E.N. Caner-Saltik* Quantitative infrared thermography and ultrasonic testing for in-situ assessment of Nemrut Dag stone statues

Session: Remote sensing

- 18.00 *P. Coppo* : Fire detection simulation with infrared payloads from geostationary platform
- 18.20 *S. Lagüela, L. Díaz-Vilariño, D. Roca, J. Armesto* Aerial thermography from low-cost UAV for the generation of thermographic digital terrain models
- 18.40 *M.R Mughal, L.M. Reyneri, D. Del Corso* Free space and glass fibre based infrared communication system on-board Aramis satellite
- 19.00 *S. Sadovnychyj, J. M. López, A. Sadovnychyj, M. A. Hernandez* Applying of the infrared system for oil and gas pipeline right of way aerial inspection

Thursday, September 12

- 09.00 *X. Maldague, F. Lopez, C. Ibarra-Castanedo (invited lecture)* Enhanced image processing for IR-NDT

Session: Buildings and Infrastructures

- 09.30 *L. Belussi, L. Danza, I. Meroni* Energy performance assessment with empirical methods: application of energy signature
- 09.50 *A. Bortolin, G. Cadelano, G. Ferrarini, P. Bison* Thermal performance measurement of the building envelope by infrared thermography
- 10.10 *P. Bison, A. Bortolin, G. Cadelano, G. Ferrarini, P. Gasparetto* : Infrared thermography for on-site inspection of photovoltaic systems: a brief review
- 10.30 *E. Robison, C. Estrada* The Application of Infrared Thermography to Conditions Assessments of Guastavino Vaulting
- 10.50 *G. Ferrarini, P. Bison, A. Bortolin, G. Cadelano, M. Girotto, U. Mazzali, F. Peron, M. Volinia* Energy survey of a historical building by infrared thermography
- 11.10 Coffee Break

Session: Nondestructive evaluation

- 11.30 *L. Vega, P. Venegas, J. Guerediaga* : Validation of a novel NDT technique with infrared thermography
- 11.50 *A. Elhassnaoui, S. Sabnoun, S. Belattar* : Nondestructive testing by determining the thermal effusivity of the geometry defects
- 12.10 *P. Venegas, L. Vega, J. Guerediaga* : Instrumentation technology based on infrared thermography for the control of aeronautical composite components subjected to certification load tests
- 12.30 *K. Li, G. Yun Tian* : State Detection of Bond Wires in Power Electronics Devices using Eddy Current Pulsed Thermography
- 12.50 *U. Galietti, D. Palumbo, R. De Finis, F. Ancona* : Evaluation of defects in composite materials by means microwave thermography
- 13.10 *L. Vega, P. Venegas, J. Guerediaga* Study of the capabilities of the processing techniques applied to defects detection in active thermography
- 13.30 Lunch
- 14.30 *Workshop sponsors* News, Trends and Opportunities

Session: Industrial applications

- 15.10 *M.M. Dugand* Automotive applications of IR thermography at CRF

- 15.30 *A. Khalifa, M. Marchetti, L. Ibos, V. Feuillet, J. Dumoulin, M. Buès, L. Bouilloud* Monitoring of traffic incidence on pavement surface temperature
- 15.50 *F. Bozzoli, L. Cattani, G. Pagliarini, S. Rainieri* Infrared imaging of the convective heat transfer coefficient distribution in coiled tubes
- 16.10 *D. Shiozawa, K. Inaba, A. Akai, T. Sakagami* Experimental study of relationship between energy dissipation and fatigue damage initiation based on observation of slip band by atomic force microscope
- 16.30 Coffee Break

Session: Bio-applications - Part I

- 16.50 *B. Jalil, O. Salvetti, L. Poù, M. Marinelli, V. Hartwig, A. L'Abbate* Heterogeneity of hand skin microcirculation assessed by near infrared 2D imaging
- 17.10 *D. Al-Ramamneh, M. Gerken, A. Riek* Effect of shearing on water turnover and thermobiological variables in German Blackhead mutton sheep
- 17.30 *S. Riyabi-Alam, V. Agostini, F. Molinari, M. Knaflitz* Evaluation of time-series registration methods in dynamic area telethermometry for breast cancer detection
- 17.50 *I. Benkő* Histogrammic method as a tool of thermal image processing
- 18.10 *E. Rokita, T. Rok, G. Taton* Evaluation of allergic response using dynamic thermography
- 18.30 *R. Lampe, S. Kawelke, J. Mitternacht, V. Turova, T. Blumenstein* Thermographic study of upper extremities in patients with cerebral palsy

Social Dinner

Friday, September 13

- 09.00 *M. Strojnik, G. Paez, M. K. Scholl (invited lecture)* Oximetry Wavelength Selection based on Functional Oxygen Saturation

Session: Bio-applications - Part II

- 09.30 *H. Trabelsi, E. Sediki* Detection of abnormalities under skin tissue by thermography: a numerical study
- 09.50 *G. Paez, M. Strojnik, L. F. Corral* Feasibility of non-contact oximetry: Monte-Carlo simulation
- 10.10 *V. Redaelli, G. Pizzamiglio, P. Selleri, N. Di Girolamo, P.A. Martino, F. Luzi* Environmental assessment of terrarium in the main species of reptiles through the thermography technique: preliminary results
- 10.30 *V. Veikutis, J. Petrauskaite, E. Tubelyte, A. Bogusevicius* Infrared thermography in breast cancer screening
- 10.50 *A. Ichiki, H. Sakamoto, Y. Obuchi* Development and verification of living body information monitoring system
- 11.10 Coffee Break

Session: Systems, Images and Data Analysis

- 11.30 *E. O'Keefe, E. Liggins* Materials for infrared remote identification & differentiation
- 11.50 *K.O. Petrosyants, I.A. Kharitonov, P.A. Kozynko, A.A. Popov* Electronic components thermal regimes investigation by IR thermography
- 12.10 *W. Allasia, P. Prinetto, A. Riva* EAGLE, a compact vision system with two simultaneous eld of view
- 12.30 *S. Soldan, A. Kroll* Towards automated gas leak detection using IR gas imaging cameras
- 12.50 *W. Swiderski, D. Nesteruk, V. Vavilov* Data fusion in IR thermographic detection of landmines
- 13.10 *A.G. Jara Chavez, F.O. Torres Vicencio* Acceleration algorithm for constant-statistics method applied to the nonuniformity correction of infrared sequences

13.30 Lunch

Session: Advanced Technologies and Materials - Part II

- 14.30 *A. Libbra, A. Muscio* Reverse use of an infrared emissometer for measurement of thermal conductivity
- 14.50 *E.A. Pieczyńska, M. Staszczak, L. Urbanski* Infrared imaging of ferromagnetic NiFeGaCo SMA single crystal subjected to subsequent compression cycles
- 15.10 *O. Plekhov, A. Fedorova* Evaluation of fatigue limit of submicrocrystalline metals based on infrared thermography
- 15.30 *R. Singh, S. Kumar* Effective thermal conductivity of composite materials with spherical

- 15.50 *W. Swiderski, V. Vavilov*: Ultrasonic IR thermographic inspection of graphite epoxy composites: a comparative study of piezoelectric and magnetostrictive stimulation
- 16.10 *W. Di, X. Wu, L. Liu, X. Zhao, H. Luo*: Pyroelectric performances of relaxor-based ferroelectric single crystals and infrared detectors
- 16.30 Coffee Break
- 16.50 *S. Trabelsi, H. Trabelsi, E. Sediki*: Infrared active gas properties and effects on thermal fluid dynamics
- 17.10 *M. Žďárský, J. Valach, D. Kytýř, M. Šperl, T. Fíla*: Sensitivity study of resonance cyclic loading of carbon fibre PPS matrix composite specimen by hi-speed recording thermocamera
- 17.30 *U. Galiatti, D. Palumbo, R. De Finis, F. Ancona*: Fatigue damage evaluation with new thermal methods
- 17.50 *M.N. Litvinova, V.V. Kristop, N.M. Kireeva*: Conversion of incoherent IR-radiation into visible radiation in nonlinear crystals

Closing session and Greetings

5th -6th October 2013, Amsterdam

Seminar: Human and Veterinary Thermography

More information: www.cursus-thermografie.eu

Last date of registration: September 1st 2013

PROGRAMME:

Saturday, October 5th 2013

- 9:00 AM - 9:30 AM Registration (with coffee and tea)
- 9:30 AM - 9:45 AM Word of Welcome
Prof. Dr. Ram Purohit
- 9:45 AM - 10:30 AM The benefits and applications of thermography in zoo animals.
Daphe van Dongen - Valk
- 10:30 AM - 11:15 AM A study into the use of Thermography for Functional Evaluation of Stallion Scrotum and Testes.
Janet Lloyd-Jones
- 11:15 AM - 12:00 PM Thermal imaging in the sled dog.
Dr. Kimberly Henneman, DVM
- 12:00 PM - 1:30 PM Lunch
- 1:30 PM - 2:15 PM New Aspects of Medical Thermography: Advances in Practice
Prof. Dr. med. Marcos Brioschi
- 2:15 PM - 3:00 PM Thermography for evaluation of dermatome patterns in horses as it relates to neck and back injuries.
Prof. Dr. Ram Purohit DVM
- 3:00 PM - 3:30 PM Break
- 3:30 PM - ± 5:00 PM A Review of Thermographic Evidence to Substantiate Acupuncture Meridians.
A look at how thermography has been used in an endeavour to validate Acupuncture and its Meridians. To be followed by a practical replication of one or two studies - incorporating an open discussion on 'best practice' whilst imaging.
Janet Lloyd-Jones
- 6:00 PM Dinner

Sunday, October 6th 2013

- 9:00 AM - 9:15 AM Welcome with coffee and tea
- 9:15 AM - 10:00 AM Similarities and dissimilarities of the technique of infrared Imaging in humans and in horses. -
Prof. Dr. med. Kurt Ammer PhD
- 10:00 AM - 10:45 AM Injury Prevention by Biomechanical Thermography Analysis - Prof. Dr. med. Marcos Brioschi
- 10:45 AM - 11:15 AM Break

- 11:15 AM - 12:00 PM Thermal evaluation of the head and neck in the horse. Including the hyoid, TMJ and upper cervicals.
Dr. Kimberly Henneman, DVM
- 12:00 PM - 1:30 PM Lunch
- 1:30 PM - 2:15 PM Thermographic evaluation of back pain in humans or in horses.
Prof. Dr. med. Kurt Ammer PhD
- 2:15 PM - 3:00 PM Thermographic Evaluation of Scrotal and Testes as it relates to various testicular diseases. -
Prof. Dr. Ram Purohit DVM
- 3:00 PM - 3:30 PM Break
- 3:30 PM - 4:15 PM Causations from praxis and relations.
Relations with anatomy, vertebra, physiological systems, dental, emotions, meridians, muscular skeletal
and deeper causations of diseases.
Martin Möhrke

25th-27th October 2013,

American Academy of Thermology, Annual Meeting in Greenville, South Carolina

AAT welcomes you to our 2013 Medical Thermal Imaging Scientific Session in beautiful downtown Greenville, South Carolina!

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the South Carolina Medical Association (SCMA) through the joint sponsorship of Bon Secours St. Francis Health System, Inc. and the American Academy of Thermology. Bon Secours St. Francis Health System, Inc. is accredited by the SCMA to provide continuing medical education for physicians.

Bon Secours St. Francis Health System, Inc. designates this "live activity" for a maximum of 6.75 AMA PRA Category 1 Credit(s). Physicians should only claim credit commensurate with the extent of their participation in the activity.

To be compliant with the AMA's "Physician's Recognition Award and Credit System, we require physicians to attest to the amount of time they are claiming credit – which should be commensurate with the extent of time they participate in a CME activity.

The AAT Annual Meeting will be held at the Bon Secours St. Francis Hospital campus.

Pre-Meeting Physician Member Certification Course: Friday, October 25, 2013

Take the next step toward AAT Membership status elevation! Take an AAT Member Certification Course

Saturday, October 26, 2013

General Sessions

08:00am – Registration

08:30am Welcoming Remarks
Jeffrey Lefko, Greenville, SC, Executive Director, American Academy of Thermology

08:45am - Session 1:

Basic Science, Clinical Conditions, AAT Guidelines & Indications

Thermographic Imaging - What, Why, When?

Dr. Robert Schwartz, MD,
Greenville, SC, President of American Academy of Thermology:

The Predictive Value of Neuromuscular Thermography in CRPS

Dr. Philip Getson, DO,
Marlton, NJ, Vice President, American Academy of Thermology:

Thermographic Imaging Uses in Animal Physiology and Anatomy,
Veterinarian Thermography Guidelines

Dr. Tracy Turner, DVM,
Elk River, MN, Board Member, American Academy of Thermology:

10:30am - Break

10:45am - Session 2:

Panel Discussion: Thermography Office Practices and Business Models - *Moderator*: Dr. Robert Schwartz, MD:

Compliance Issues in a Breast Thermography Practice

Dr. John Pittman, MD, Raleigh, NC:
Chair, AAT Website subcommittee

Use of Thermography as a Business Model in Building New Practices

Dr. Bruce Rind, MD, Washington, DC:

Thermography Camera Palettes in a Thermography Imaging Practice

Dr. Tashof Bernton, MD,
Denver, CO: Co-Editor, AAT Newsletter

Thermal Stability in an Imaging Lab

Jane Crawford, RN,
Rockford, Illinois: Chair, AAT Technicians Subcommittee
Monitoring

12:15pm - Lunch (provided)

1:30pm - Session 3:

Panel Discussion: FDA Review and Monitoring Process of Thermographic Cameras and Technical Specifications

Moderator: Andrzej Zielke, MD Allison Park, PA Chair, AAT Devices and Equipment Subcommittee

Inframing Camera Specifications Study

Terry Clausing, PE,
Drysedale and Associates, Cincinnati, Ohio: AAT Consultant,

Understanding the Role of the FDA in Thermography

Carol Chandler, DOM,
Lakeland, FL, Member, AAT Devices and Equipment Subcommittee

3:30pm - Break

3:45pm - Session 4:

Panel Discussion: Thermography Licensing, Regulation, and Research Issues and Challenges

Recent State Licensing Boards Activities on Thermography and Thermographers

John Gilbert, Ph.D,
Professional Licensing Consultant, Asheville, NC:

Canadian Thermography Regulations and Licensing Issues

Dr. Alexander Mostovoy, HD, DHMS,
Toronto, Ontario, Member, AAT Membership Committee

The Current Thermography Status in Australia

Dr. Philip Getson, DO,
Marlton, NJ: Vice President, AAT

Medical Research and Publishing:
The Duke Clinical Research Institute Experience

James Melton, MHA,
Cary, NC: Member, AAT Board of Directors

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

5:30pm – Session Ends

6:30pm to 7:30pm – Meet and Mingle with the Leadership at the Hilton Hotel

Presentation of the AAT 2013 Achievement Award

Sunday October 27, 2013

Committee Meetings:

07:30am – Shuttle from Hilton Hotel

08:00am – Committee Meetings (Committee members and other attendees):

Membership Committee including:

- Sub Committee on Complimentary Alternative Medicine (CAM) and Allied Health
- Sub Committee on Technicians/Technologists.
- Devices and Equipment Committee
- Journal/Newsletter
- Website Committee
- Education Committee
- Advocacy Committee

09:15am – General Session (all in attendance)

10:15am – General Session Ends

10:30am – Shuttle returns to Hilton Hotel

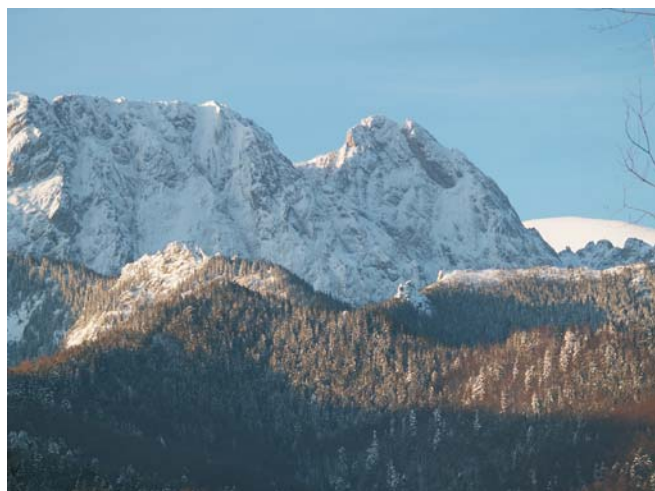
10:15am - Board of Directors Meeting (board members only)

1pm - Board of Directors Meeting Ends

Further information

Dr Robert G. Schwartz
500 Duvall Drive, Greenville, S.C., 29607 USA
email: contact@aathermology.org

Website: aathermology.org



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XVIII NATIONAL CONGRESS OF THE POLISH ASSOCIATION OF THERMOLOGY

ZAKOPANE 4th-6th April 2014

GENERAL INFORMATION

REGISTRATION FEE: 250.- €

ABSTRACT DEADLINE February 15th 2014

ajung@wim.mil.pl or a.jung@spencer.com.pl

Abstract form will be published in Thermology International and in Acta Bio-Optica et Informatica Medica and registration on line

Professor Jung and the Organizing Committee invite you to this annual conference in the beautiful mountain resort of Zakopane in South Poland, which is 2hours journey by bus from Krakow International airport and the city of Krakow. The conference is in HYRNY Hotel with its wonderful views of the Tatra mountains, and short walk from the town centre.

Local Organizing Committee

Prof. Anna Jung (Chair)
Dr Janusz Zuber (Deputy Chair)
Dr Boleslaw Kalicki
Mgr inż. Piotr Murawski
Agnieszka Rustecka

International Scientific Committee

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ProfMercer James PhD (Norway)
ProfRing Francis DSc (UK)
ProfAmmer Kurt MD,PhD (Austria)
Prof Wiecek Boguslaw PhD(Poland)
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Dr. Howell Kevin, PhD (UK)
ProfManuel Sillero Quintana PhD. (Spain)
ProfAdriana Nica MD,PhD (Romania)

Registration fee for non Polish participants will be paid in cash on arrival at the conference.

Registration by e-mail is required before March 1st to ensure hotel reservation.

After registration number is issued, delegates are committed to payment of the fee.

Registration includes welcome dinner Friday 15th

Lunch and accomodation.

Extra night + breakfast + 70 €

Accompanying person – 200 €



Call for Papers

Since 1992, the Quantitative InfraRed Thermography (QIRT) conference is a biannual international forum which brings together specialists from industry and academia, who share an active interest in the latest developments of science, experimental practices and instrumentation, related to IR thermography.

Following conferences in Paris (1992), Sorrento (1994), Stuttgart (1996), Lodz (1998), Reims (2000), Dubrovnik (2002), Brussels (2004), Padova (2006), Krakow (2008), Québec City (2010) and Naples (2012), the 12th Quantitative InfraRed Thermography Conference, QIRT 2014, will take place on July 7-11, 2014, at the Mechanics & Engineering Institute of Bordeaux.

QIRT 2014 will cover, but will not be limited to, the following topics:

- State of the art and evolution in the field of IR scanners and imaging systems allowing quantitative measurements and related data acquisition and processing.
- Integration of thermographic systems and multispectral analysis. Related problems like: calibration and characterization of IR cameras, emissivity determination, absorption in media, spurious radiations, 3D measurements, certification and standardization.
- Thermal effects induced e.g. by electromagnetic fields, elastic waves or mechanical stresses.
- Application of IR thermography to radiometry, thermometry and physical parameters identification in all fields such as: industrial processes, material sciences, thermo-fluid dynamics, energetics, non-destructive evaluation, cultural heritage, environment, medicine, bio- medical science, food production...

Important dates

- Abstract submission deadline: November 20, 2013
- Acceptance notification: January 31, 2014
- Paper submission deadline: April 30, 2014

Abstract and Paper Submission

The participants are invited to submit to the QIRT 2014 Web Site by November 20, 2013 an **extended abstract** of 2 pages (letter size A4 format), either for oral or poster presentation, including key figures and main results. A book of abstracts will be distributed at the conference.

Following acceptance notification, **camera ready, full paper** of 6-10 pages including color figures should be submitted to the QIRT 2014 web site by April 30th, 2014. All submissions for oral or poster presentation will be handled electronically via the conference website

QIRT2014.scientificevent.

Steering Committee

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A Word template to be used for both abstracts and full papers is downloadable at the website. Authors are requested to propose the thematic section in which

the paper should be included.

Abstract submission

Web-Based Proceedings and possible publication in QIRT Journal

Presented papers (oral and posters) will be published online in the QIRT Open-Archives, which can be found at the website: www.qirt.org. A USB flash drive with all conference papers will be also distributed to the conference participants.

After the conference, the Scientific Committee will carry out a pre-selection of the most prominent presented papers for a possible publication in Quantitative InfraRed Thermography Journal after a subsequent review by two experts.

Tutorials, Technical Visit and Workshop

QIRT short courses

In addition to the main technical program, the conference will include one-day short courses (Monday, July 7). The program and the related fees will be defined soon and presented in the conference website. It will include a general introduction to thermography in the morning and specialized courses on various application fields given in parallel during the afternoon (non-destructive evaluation, thermo-fluid-dynamics, building, thermomechanics...).

Summer course on thermomechanics

A summer-course (given in French) on thermography and thermomechanics of materials will take place from June 30 to July 4. The website will be opened and related to the QIRT conference site in October 2013.

Technical Visits

A lot of research teams are using IR thermography on the Bordeaux University Campus and will be opened for visits.

Student Award

Striving to stimulate young researchers, the organizing committee will award the best conference contribution presented and authored only by students.

Conference fees (VAT included)

Regular participants

- Early rate (deadline: May 20, 2014): (550 €)
- Late rate (deadline: June 27, 2014): (650 €)
- Desk registration rate: (800 €)

Students

- Early rate (deadline: May 20, 2014): (350€)
- Late rate (deadline: June 27, 2014): (450 €)

Fee covers: Book of abstracts, Conference USB Proceedings, Welcome reception, Conference dinner, 3 lunches and coffee breaks. Accommodation is not included.

For regular participants only, fee includes also a subscription to QIRT Journal for 2 years (standard personal subscription rate 100 €/year).

Accompanying persons

- Rate (deadline: June 27, 2014): (120€)

This amount includes the Welcome reception and Conference dinner.

Venue

QIRT 2014 will be held at the Ecole Nationale des Arts et Métiers located in the campus of the Bordeaux University, at 20 min by tram from the historic center of the City. Bordeaux is listed to the UNESCO world heritage. The city is exemplary thanks to the unity of its classical and neoclassical architecture (see www.bordeaux-tourisme.com).

A list of hotels will be given in the conference website. Booking of hotel is not assumed by the conference organization. For students only, low cost accommodations can be booked on the Bordeaux University campus.

Conference website

For further information please visit the site: QIRT2014.scientific-event.com

or contact the organizing committee at: QIRT2014@scientific-event.com



European Association of Thermology

Physical Activity and Sports Faculty
Universidad Politécnica de Madrid



POLITÉCNICA

XIII European Association of Thermology Congress



FIRST ANNOUNCEMENT

Thermology in Medicine:

Clinical Thermometry and Thermal imaging