

## Scientific programme of the Combined Conferences

### 10<sup>th</sup> European Congress of Medical Thermology 9<sup>th</sup> National Congress of the Polish Association of Thermology 19<sup>th</sup> Thermological Symposium of the Austrian Society of Thermology

Zakopane / Poland - 15<sup>th</sup>-17<sup>th</sup> September 2006

#### Thursday - the 14<sup>th</sup> of September

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16.00 - 19.00 - Registration

18.00 - 22.00 Welcome and greetings from Zakopane.

Concert chamber music.

Dinner

#### Friday - the 15<sup>th</sup> of September

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##### Session I: 9.00 - 10.30 Thermal physiology

Chair: J.Mercer (Norway), J.Zuber (Poland)

1. "Measurement of human body temperature technological and methodological advances"- Ring E.F.J. (UK)
2. "Regional human skin temperatures after caffeine ingestion" - Pascoe D.D., Strecker E., Foster B., Purohit R.C. (USA)
3. "The effect of exercise on body cooling rates determined by thermal imaging" - Jones CD, Hare DB, Ring E.F.J., Plassman P. (UK)
4. "Relationship between intramuscular temperature and skin surface temperature as measured by thermal imaging camera" - Hardaker N., Selfe J., Richards J., Moss A., McEwan I., Jarvis S. (UK)

Coffee break 10.30 - 11.15

##### Session II: 11.15 - 13.15 Vascular: Blood flow studies

Chair: F.Ring (UK) R.C. Purohit (USA)

5. "CO<sub>2</sub> reactivity. Applications in infrared imaging" - Govindan S. (USA)
6. "A preliminary report on mapping of vascular perfusion patterns in isolated human lower transverse abdominal flaps using dynamic infrared thermography (DIRT), Indocyanine Green (ICG) fluorescence video angiography and 3-dimensional CT scanning" - Miland AO, Mercer JB, Weerd L, Weum S (Norway)
7. "Association of plantar foot temperatures and sensory loss in diabetic foot disease" - Bharara M, Cobb JE, Claremont DJ, Hadley G, Grewal G, Viswanathan V, Anderson AM, Ramachandran A (UK)
8. "Sniffing out Raynaud's phenomenon" - Harding JR (UK)
9. "Forehead - Nose Thermal ratio and Pain relief in Migraine" - Govindan S. (USA)

Lunch 13.30 - 14.30

## **General Assembly EAT 14.30 - 15.30**

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### Agenda:

- Report of the president
- Report of the treasurer
- Statement of the auditors
- Election of a new board

### **Session III: 16.00 - 18.30 Infrared Technology**

Chair B.Wiecek (Poland), R.Thomas (UK)

10. "Infrared detectors and camera systems" - Thomas R. (UK), Snell J. (USA)
11. "Compact thermal imager on the base of 2x64 focal plane array with television frame frequency and high thermal resolution." - Zabudsky V, Sizov F, Golenkov O, Kravchenko S, Shevchic A, Behtir O (Ukraine)
12. "Quality assurance of thermal imaging systems in medicine" - Plassmann P, Jones CD, Ring EFJ, Simpson R. (UK)
13. "Procuring and operating the right imager for medical thermography" - Howell KJ, Naeem M, Dziadzio M, Smith R.E. (UK)
14. Thermal image processing for medical applications - advanced hardware and software developments - B. Wiecek, M. Kulinski, B. Ostrowski

Dinner - 19.00 - 22.00

## **Saturday - the 16<sup>th</sup> of September**

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### **Session IV: 8.30 - 10.30 Imaging and Image Processing**

Chair: P.Plassmann (UK), Benkő I (Hungary)

15. "Thermal-visual composite image generation" - Schaefer G, Tait R, Howell K, Zhu SY, Woo P, Harper J. (UK)
16. "Repeatability of the identification of hot spots in thermal images" - Ammer K. (Austria)
17. "Perioperative patient warming: a thermographic evaluation of two systems" - Smith R.E., Hasani A, Dziadzio M, Howell K.J (UK)
18. "DICOM for infrared imaging" - Schaefer G., Huguet J., Plassmann P., Zhu S.Y., Ring F. (UK)
19. "Development of an anatomical marker system for thermal imaging data analysis for use in cryotherapy research" - Hardaker N., Selfe J., Thewlis D., Karki A. (UK)
20. "Human experiments in a vacuum-chamber: testing pilots for emergency cases" - Benkő I. (Hungary)

Coffee break 10.30 - 11.15

### **Session V: 11.15 - 13.00 Clinical studies**

Chair: D.Pascoe (USA) K.Ammer (Austria)

21. "Infrared thermal imaging for the diagnosis of osteoarthritis" -Ammer K. (Austria)
22. "An attempt of comparison the results of thermographic, dermatoscopic, histopatologic and electron microscopy examinations of the skin melanocytic nevi" - Mikulska D. (Poland)
23. Regression of skin lesion in psoriasis vulgaris patients evaluated by thermal imaging - Zalewska A, Gralewicz G, Owczarek G, Wiecek B, Sysa-Jedrzejowska A

24. "Thermovision in the assessment of subarachnoid anesthesia effectiveness" - Matysiak E, Laszczynska J. (Poland)
25. "Cost-sensitive classification of breast cancer thermograms" - Schaefer G, Nakashima T, Zavissek M, Drastich A., Yokota Y. (UK)
26. "Interesting case studies using infrared imaging for breast screening" -Gardner N. (USA)
27. "Hyper-metabolic lymphatic systems impairing view of vascular features in thermal breast screening" - Gardner N. (USA)
28. "Active dynamic thermography - a new quantitative method of burn depth evaluation" - Renkielska A, Kaczmarek M., Nowakowski A., Ruminski J. (Poland)

Lunch 13.00 - 14.00

### **Session VI: 16.00 - 18.00 Fever screening, SARS / Avian Flu**

Chair: S.Govindan (USA), A.Nowakowski (Poland)

29. "Thermography for human temperature screening-International Standards Organization project" - Ring E.F.J. (UK)
30. "FLIR Systems experience with SARS disease" - Thomas A., Rutkowski P. (Poland)
31. "Facial temperature measurement in children" - Zuber J., Ring E.F.J., Jung A., Rutkowski P. (Poland)
32. "A thermal image validation system for medical infrared Thermology" - Naeem M, Simpson R, Plassmann P, Campbell P, Howell KJ, Agnew JA, Smith RE (UK)

Dinner 19.00 - 23.00

## **Sunday - the 17<sup>th</sup> of September**

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### **Session VII: 9.00 - 10.30 Animal studies**

Chair: R.Harding (UK), K.Howell (UK)

33. "Research review of Thermology in veterinary medicine" - Purohit R.C., Pascoe D.D. (USA)
34. "Thermographic evaluation of cervical dermatome in the bull" - Pascoe C.A., Wolfe D.F., Navarre C.B., Abrams M., Pascoe D.D., Purohit R.C. (USA)
35. "Standardization for the use of infrared thermal imaging in veterinary medicine" - Purohit R.C. (USA)

Coffee break 10.30 - 11.00

### **Session VIII: 11.00 - 12.00 Final**

Chair: A.Jung

36. "Standardisation of thermal imaging. The Anglo Polish Reference Database" - Ring E.F.J, Ammer K, Jung A., Murawski P., Wiecek B., Zuber J., Plassmann P., Jones C.D. (UK)
37. "European congress of Thermology 1974-2006: a historical review." - Ammer K. (Austria)

12. 00 Close