

# THERMOGRAPHY IN THE WORLD

■ **SUNNY BEACH (Bulgaria).** The IInd Conference on Liquid Crystals for Socialist Countries was held in Sunny Beach from the 2528th September 1977. In the course of the conference 7 lectures were given on the application of cholesteric liquid crystals in cutan or contact thermography: M. Paseva, L. Komitov, P. Velickova (Soviet Union): The application of cutan thermography in stomatologic processes. F. Lelik, Gy. Kézy, O. Solymossy (Hungary): The use of liquid crystals for dermal thermography lameness of horses and cattle. F. Lelik (Hungary) The application of liquid crystals in orthopedic diseases. O. Solymossy (Hungary) The seemingly invisible traces made visible by fluroscopy-thermography in criminal technics. O. Psenicka, P. Smoranc (Czechoslovakia): Thermography by liquid crystals in medicine and comparison of the patterns obtained by liquid crystals and thermovision. V. Mus, M. Moitsheenko, M. Muiana (Soviet Union): Possibilities for the application of liquid crystal thermography in the diagnosis of the diseases of the thyroid gland. A. Sverdlik, I. Tshistiakov, I. Gorina (Soviet Union): The application of liquid crystals in ophthalmology.

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■ **ROTTERDAM (The Netherlands).** The Anglo Dutch Thermographic Society was formerly constituted at a meeting in Rotterdam University on November 19th 1977. To prepare the bylaws and the election of officers of the Society a preliminary Board, or Steering Group, was nominated. It comprises: Dr. Steketee, Faculty of Medicine, Erasmus University, Rotterdam, Dr. R. Woudrough, Saint Bartholomew's Hospital, London, Mr. E. F. J. Ring, Royal Hospital for Rheumatic Diseases, Bath, N. J. M. Aarts, Tilburg. The Society will be registered both in the United Kingdom and in The Netherlands. Full members necessarily must be a member of the European Thermographic Association. The scientific programme included: (a) The Netherlands on design and development in vidican detector systems. Mr. Vermej (The Netherlands). (b) Image processing for breast cancer thermography. Professor Anliker (Switzerland). Topic groups in Breast Diseases, Vascular Diseases, Locomotor Diseases and Instrumentation have been set up. The next meeting will take place in Cambridge U.K. in March 1978. Further details from Dr. Page-Thomas, Strangeways Laboratory, Worts Causeway, Cambridge, U.K.

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■ **BATH (England).** An exhibition, a series of lectures, four concerts and a dramatisation of the life of Herschel were arranged by Bath University from September - December 1977. Also featured were some of the scientific works of John Herschel the son, who made the first evaporograph, after his father had discovered the infra red part of the spectrum. Before his remarkable scientific career, William was an accomplished musician and composer. Most of his remaining compositions were played during the Herschel festival.

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■ **MARSEILLES (France).** The Regional Cancer Centre and the French Thermographic Club will organise a post graduate course of clinical thermography from the

20th to 22nd of April 1978 at the J. Paoli and I. Calmettes Institute 232, Boulevard de Sainte-Marguerite 13009 Marseilles. The course, under the direction of Dr. P. Amalric and Prof. Agr. J. M. Spitalier, will consist of both theoretical and practical lessons. The first day will be 'devoted to the technical basis of infra-red thermography, the second to thermography in cancer of the breast and other cancers and the third to thermography in non-cancerous diseases. Course teachers: M. Gautherie (Strasbourg); C. Altschuler; Y. Ayme; H. Brandone; D. Giraud; F. Meline; F. Mouton; F. Robert; F. Rousseaux; F. Santamaria; L. Thomassin (Marseilles).

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■ **CAMBRIDGE (England).** The Anglo-Dutch Thermographic Society will organizing a meeting at Corpus Christi College, Cambridge, Saturday April, 15, 1978. This is the programme of the meeting: Campbell (the Physiology laboratory, Cambridge University): Oscilloscope image perception; R. Lawson (Royal Signals and Radar Establishment): Some factors in infrared camera design; Instrumental Group Report: Instrument assesment and systems performance; E.F.J. Ring (Royal National Hospital for Rheumatic Disease, Bath): Terminology commission publication report; M. Houdas (Department of Physiology, Lille University): The effect of the environment on body temperature; R.P. Clark (Aerobiology Laboratory, Clinical Research Centre): Film on « Infra red thermography in 'environmental; P.F. Bradley (Maelor Hospital, Wrexham): Thermography as an aid to cryosurgery; L. de Thibault (University Hospital, Gent): Cerebro vascular thermography; E.F.J. Ring (Royal National Hospital for Rheumatic Disease, Bath): Quantitating vascular thermography; H. Bird (Department of Rheumatology; Leeds University) : Thermographic assesment of cyclophosphamide therapy in rheumatoid arthritis; J. Graber (Royal National Hospital for Rheumatic Disease, Bath): Tenosynovitis detection in the hand; J. Engel (Rheumatology Clinic, Baden Baden): Standardising and recording patient positions for thermography; P. Page-Thomas (Addenbrookes Hospital, Cambridge): A thermographic index.

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■ **NEW ORLEANS (USA).** The Gynecological Society for the Study of Breast Disease, in collaboration with the Departments of Obstetrics and Gynecology of: Georgetown University School of Medicine, Louisiana State University School of Medicine, Tufts University School of Medicine and Tulane University School of Medicine, will organise a post graduate course on Breast Disease in gynecological and primary care medical practice. An International Symposium on Breast Disease, in conjuncton with the Second Annual Meeting of the Society in New Orleans, Louisiana - May 13-18, 1978 at the Royal Sonesta Hotel. Further information: Gynecological Society for the Study of Breast Disease, 5272 River Road, Suite 660, Washington, D.C. 20016 (USA).

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**BARCELONA (Spain).** From 11th to 15th of September, 1978, the 2nd International Congress of Thermography will be held under the aegis of the European Thermographic Association and in conjunction with the American, Japanese and Canadian Thermographic Associations, at the Congress Palace of Montjuich, Barcelona. President of the congress will be Prof. F. Solsona Motrel. The work of the congress will be divided into 12 section as follows: 1) Physical, technical and astronomic thermography. Chairmen Hidalgo (Madrid); Ballester (Barcelona); 2) A. Thermography in industry; B. Thermography in ecology. Chairman: Gautherie (Strasbourg); 3) Thermography on its military applications. Chairmen: Gomez Alba (Barcelona); Snijders (Madrid); 4) Thermography on Agronomy, biology and veterinary medicine. Chairmen: Martin (Zaragoza); Prats esteve (Barcelona); 5) Thermography on phisiology and pharmacology. Chairmen: Palomero (Madrid); Garcia Trivino (Zaragoza); 6) Thermography on breast pathology.

Chairmen: Solsona (Zaragoza); Martines Comin (Zaragoza); Madrid (Zaragoza); Hernandez (Zaragoza); Callao (Zaragoza); 7) Thermography in cancers (breast excluded). Chairmen: Negueruela (Bilbao); Abad Iglesias (Madrid); 8) Thermography in the pathology of locomotor system. Chairmen: Prats Esteve (Barcelona); Asandes (Barcelona); Puigdomenech (Barcelona); 9) Thermography on cutaneous pathology and plastic surgery. Chairmen: Zaragoza (Sevilla); Nieto (Sevilla); 10) Thermography on face and neck pathology. Chairman Padron Villareal (Madrid); 11) Thermography on vascular pathology. Chairman: Santas Capilla (Santander); 12) Thermography on preventive and labour medicine. Chairmen: Murillo (Barcelona); Rocchi (Cesena). Address for further information: General Secretariat. Cruz Blanca, Pelayo, 40 Barcelona. Spain. Tel. (93)3017878.

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■ **TORONTO (Canada).** The American Thermographic Society will held its annual meeting in Toronto (Canada), March 31-April 1, 1979. Authors who would like to submit papers for presentation at the American Thermographic Society Meeting are requested to forward summaries to: William B. Hobbins, M.D., Program Chairman, American Thermographic Society 7803 Mineral Point Road, Madison, Wisconsin 53717 (USA). Deadline for submission, September 15, 1978.

■ « **ELEMENTS DE THERMOGRAPHIE INFRAROUGE** »: by J. Dumolin and C. Loriaux, published by Meloine Editeur Paris, 1977. This is an intelligently written book that examines all aspects of telethermography and its place in relation to other diagnostic methods such as radiographs and ultrasound. After a short historical review and an explanation of the basics, the authors describe the normal human thermographic anatomy. Then they illustrate all the applications of telethermography of each organ and their results.

Not only is this an instructive book, but also it is a practical easy reference volume. The contents are: Physical basis of infrared thermography, Health thermography, Breast thermography, Abdominal thermography in gynaecologic and obstetric problems, Vascular diseases thermography, Cancer, Rheumatic diseases, Traumatology, Peripheral nerves diseases, Dermatology.

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■ « **THERMOGRAPHY OF THE BREAST** »: by N. T. Johanson in collaboration with N. Bjurstam, K. Medberg, A. Multborn and C. Jonhnsén - Supplementum 460 of Acta Chirurgica Scandinavica; distributed by Almqvist and Wiksell Periodical Company, Stockholm, Sweden, 1976.

This is a critical analysis of breast thermography with special reference to breast cancer detection based on studies of 1551 women, 178 of whom had cancer. It concludes that thermography is of importance in the detection of breast cancer and that it does not give specific signs. Moreover it has a high percentage (19.6%) of false negative thermograms and an even higher percentage (38%) of false positives in healthy women.

Here are the contents of the book: Thermography, Infrared photography, Methods, Interpretation of thermograms, Materials and results, Infrared photography, General discussion, Summary and conclusions.

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□ **BREAST DISEASE IN GYNECOLOGICAL AND MEDICAL PRIMARY CARE PRACTICE.** This book consists of the proceedings of the first annual post-graduate course and symposium organized by the Gynecological Society for the Study of Breast disease, on this theme, at Washington, D.C., April, 22, 23, 24, 1977. This book of the proceedings is edited by I. Nyirjesy, acting president of the Society. The aim of the book is to present the current concepts and new approaches that have been developed both in the screening of asymptomatic women, and in managing patients with benign or malignant breast disease. The articles are oriented to the gynecologist, internist and family physician, and clearly show how important it is that primary physicians acquire a comprehensive understanding of mammary problems. All aspects of the treatment of the breast, their indications and their limits, are clearly investigated; and the experience of a faculty of experts is presented. These are the contents of the book: I. Nyirjesy: Foreword; L. Keith (Chicago): Breast disease and primary care practice; H. J. Norris (Washington): The pathology of benign and malignant breast conditions; Ph. Strax (New York): Screening for breast cancer; J. C. Bailar III (Bethesda) Mammography: a contrast view; J. Wolfe (Detroit) Comments on Dr. Bailar's paper; Ph. Cole (Boston): Epidemiologic and endocrinologic aspects of breast cancer; D.J. Marchant (Boston): Physical examination of the breast; H.P. Leis (New York)

Diagnosis of breast cancers; J.N. Wolfe (Detroit): Mammography; I. Nyirjesy (Bethesda): Breast thermography; G.S. Shaber (Philadelphia): Thermography at Thomas Jefferson University Hospital screening program; G. Baum (New York): The role of ultrasonography in breast disease; W. J. Frable (Richmond): Breast cytology; G.B. Cannon (Kensington): Immunologic studies on breast disease; G.F. Schwartz (Philadelphia): Breast biopsy; H.P. Leis (New York): Selective breast cancer surgery and reconstruction; W.B. Hobbins (Medison): Experiences with thermographic breast cancer screening in the state of Wisconsin; O.H. Coury (Miami): The prevention of breast cancer by selective subcutaneous mastectomy.