

## *Events*

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### **SYMPOSIUM ÜBER THERMISCHE ANALYSE SOPRON, UNGARN, 20.-22. SEPTEMBER, 1995**

Die Gesellschaft für Thermische Analyse e.V. und die Fachgruppe Thermische Analyse beim Verein Ungarischer Chemiker sowie der Ausschuß für Thermische Analyse der Ungarischen Akademie der Wissenschaften laden alle interessierten Kollegen zu dem vom 20. bis 22. September 1995 in Sopron (Hotel Löwer) stattfindenden Symposium über Thermische Analyse sehr herzlich ein. Das wissenschaftliche Programm umfaßt alle Aspekte der Thermischen Analyse unter besonderer Berücksichtigung von Polymeren, der industriellen Anwendungen und der Qualitätssicherung. Neben wenigen Plenarvorträgen und einem Preisvortrag sind sowohl Kurzvorträge als auch Poster vorgesehen. Die Konferenzsprachen sind Deutsch und English. Ausgewählte Beiträge des Symposiums werden in einem Sonderband des 'Journal of Thermal Analysis' publiziert.

Die Kurzfassungen der angemeldeten Beiträge werden bis zum 15. Juni 1995 erbeten und allen Teilnehmern mit den Tagungsunterlagen zur Verfügung stehen.

Ihre Anmeldung senden Sie bitte auf beigefügter Anmeldekarte bis zum 10. April 1995 an.

Verein Ungarischer Chemiker  
Prof. G. Liptay  
Fő u. 68  
H-1027 Budapest, Ungarn

Als Kontaktperson der GEFTA erteilt Ihnen Auskunft  
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Institut für Anorganische und Analytische Chemie  
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D-07743 Jena.  
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## AFCAT

### **Journées de Calorimétrie et d'Analyse Thermique J.C.A.T. 95 MARSEILLE les 22, 23 et 24 mai 1995**

Thème principal: Applications de la Calorimétrie et de l'Analyse Thermique aux Sciences de la vie et de l'Environnement.

Thèmes libres: Solutions, self fondus, metallurgie, interfaces, instrumentations.

Renseignements: Secrétariat des J.C.A.T.  
Pr. J.C. Sari et Dr P. Rebouillon  
Laboratoire d'Analyse des Risques Technologiques  
Université d'Aix-Marseille II - Faculté de Pharmacie  
27, Bd Jean Moulin  
13385 Marseille Cedex 5  
T: 91 79 44 89 Télécopie: 91 80 94 69

## **G. MED. CAT '95**

**will be held in Chia (Italy), September 12-16, 1995.**

The G. Med. Cat '95 are organised by:

AICAT, Associazione Italiana di Calorimetria ed Analisi Termica

GICAT, Gruppo Interdivisionale di Calorimetria ed Analisi Termica della Societa'  
Chimica Italiana

GECAT, Grupo Especializado de Calorimetria y Analisis Termico, Espana

G. Med. CAT '95  
Prof. Bruno Marongiu-Dott. Silvia Porcedda  
Dipartimento Scienze Chimiche  
Universta' di Cagliari  
Via Ospedale 72, 09124 Cagliari  
T: 39(70) 668047  
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## **CALL FOR NOMINATIONS FOR THE ICTAC AWARDS**

Nominations are requested for the ICTAC TA Instruments and Young Scientist Awards which will be presented at the 11th International Conference on Thermal Analysis in Philadelphia, U.S.A., 12-16 August 1996.

## TA INSTRUMENTS AWARD

This consists of a plaque, an honorarium of 1000 US Dollars, and expenses to attend the Philadelphia meeting. It is awarded to a person who has, in the judgement of the Awards Committee and Council of ICTAC, made an outstanding contribution to the science of thermal analysis and/or shown significant leadership to the profession of thermal analysis. Nominations should include the consent of the candidate, curriculum vitae, list of publications, and other relevant supporting material. Five copies of the nomination portfolio should be provided.

## PERKIN ELMER YOUNG SCIENTIST AWARD

This consists of a plaque and necessary financial support to attend the Philadelphia meeting. Candidates, who must be under 35 years of age as of 31 December 1996, should submit the paper that they intend to present at the meeting, together with a list of publications and a short curriculum vitae. The paper must be in English and the candidate must be the sole author. Five copies of the documentation should be provided.

Nominations for both Awards should be received by 31 August 1995 by

Prof. Dr. E. Gmelin  
Chairman, ICTAC Awards Committee  
Max-Planck-Institut für Festkörperforschung  
Heisenbergstr. 1  
70569 Stuttgart

## Presentation of the 1994 NETZSCH GEFTA Award to Dr. M. J. Richardson in Leipzig, 27 September 1994

The NETZSCH GEFTA Award, endowed by NETZSCH-Gerätebau GmbH in Selb, Bavaria, is presented for exceptional scientific achievement in the field of thermal analysis and/or for outstanding contributions to thermal analysis in the areas of instrumentation or organization.

The 1994 NETZSCH GEFTA Award is being presented to Dr. M. J. Richardson.



*Dr. M. J. Richardson (right) and Prof. Hemminger, President of GEFTA (left)*

Dr. Richardson was born in 1934 in Hull, East Yorkshire, England, where he received his schooling. In 1952 he began his studies in chemistry at the University of Manchester, where he also completed his doctorate with the dissertation "Compressed gases as solvents". This work dealt with the problem of the increased mercury concentration in compressed gases, which are in contact with a pressure exchanging mercury column.

After receiving his Ph.D. (1958), Dr. Richardson began at the former Mellon Institute in Pittsburgh, USA, where he studied the kinetics of crystallization and the melting of statistical copolymers. This transformation was studied with the aid of prolonged dilatometry, for which up to two weeks were required to achieve the final balance – if at all. After three years in the USA, Dr. Richardson returned to England to work with Prof. Bourden at the Cavendish Laboratory at Cambridge University. At that time, the electron microscope was being used as an important research method in metal physics; the structure of metals, orientation distributions, alloys, crystal boundaries, etc. were investigated in order to understand the characteristics of the metals – primarily the mechanical behavior. It seemed reasonable to try using this research technique with polymers as well. The result of this was that polymer research was established and finally became independent in highly-renowned laboratories for solids and metals research, which undoubtedly include the Cavendish Laboratory at Cambridge.

In 1963, after two years at Cambridge, Dr. Richardson went to the National Physical Laboratory (NPL), the British metrological institute in Teddington near London. There it was planned to continue the work with the electron microscope and to run calorimetry tests on polyethylene monocrystals. Soon, however, the calorimetric investigations with adiabatic calorimetry took priority. The aim here was to determine the surface energy of the crystal through variation of the crystal thickness. The new DSC technique was also developed during this time, and was used by Dr. Richardson, first as an auxiliary method for adiabatic calorimetry. Finally, the DSC came to the fore, and Dr. Richardson, with numerous fundamental investigations -- in particular, for the determination of thermodynamic functions with the DSC -- contributed to the ability for obtaining reliable data with the DSC.

A few highlights:

- "Thermal lag" correction: This allows for the fact that the deviation of the sample temperature from the indicated temperature cannot be measured directly during a transformation or changes in  $C_p$
- The correct determination of the glass transition temperature in polymers with DSC
- $C_p$  determination with DSC and drop calorimetry
- Adiabatic calorimetry -- in particular, the precise measurement of heat capacities and thermodynamic potentials of polymers.

Today the record stands at approximately 70 publications, about 50 of which are in the area of thermal analysis, including calorimetry, as well as approximately 7 lengthy chapters in books.

In addition, Dr. Richardson serves on several scientific committees:

- Chairman of an IUPAC work group, Thermal Properties of Polymers
- Chairman of the Standardization Committee of the ICTAC.

Perhaps I should also mention that it is an absolute exception that Mike Richardson is wearing a tie, that he regularly -- even in English weather -- rides his bike to NPL and that he has a big -- a really big -- hobby. His hobby is steam-driven vehicles, e.g. locomotives, not simply models, but lifesize. Of course these can't be collected, but they can be tracked down, examined and photographed. Any tips on where machines like this can be found are welcome.

The NETZSCH GEFTA Award consists of a certificate and monetary recognition in the amount of DM 4,000.--. We congratulate Dr. Michael Richardson on this award. We wish him continued good health for his upcoming retirement and hope that he enjoys the work that he still plans to do in the area of thermal analysis.

**W. Hemminger**  
Chairman, GEFTA