

**ITES 1989**  
**TENTH INTERNATIONAL THERMAL**  
**EXPANSION SYMPOSIUM**

Boulder, Colorado, USA  
June 6–7, 1989

This is the tenth symposium of this series on thermal expansion. The goal of the symposium is to communicate up-to-date information on all theoretical and experimental aspects of thermal expansion, including applications dealing with materials in all temperature ranges.

**Special topics**

- Developing and advanced technical materials, e.g., ceramic/metallic/polymer composites, advanced ceramics, high-temperature superconductors, polymers, metals, metallic glasses, etc.,
- Standard Reference Materials,
- Experimental techniques and procedures,
- Interpretation of data and modeling,
- Correlations of thermal expansion properties with critical problems in electronic packaging, printed-circuit boards, space structures, etc.

**General information**

The symposium is sponsored by the National Bureau of Standards and will be held June 6–7, 1989 in Boulder, CO. Details regarding the specific site, equipment exhibits, and registration information will be made available at a later date to those sending their addresses. The Symposium will consist of a full two-day schedule with both invited and contributed papers.

**Call for papers**

Prospective authors are requested to follow the schedule given below:

*Abstracts* (200–300 word) are to be submitted before February 17, 1989. The content of the abstract will be the basis for acceptance of the paper for presentation.

*Manuscripts* are to be submitted by June 7, 1989. They will be reviewed and those accepted will be published in a special proceedings issue of the International Journal of Thermophysics.

Abstracts (and papers if available prior to the June deadline) should be sent to the symposium chairman:

LARRY L. SPARKS

National Bureau of Standards  
325 Broadway  
Boulder, CO 80303, USA  
(303) 497-3612

**THIRD MEETING ON FIRE  
RETARDANT POLYMERS**

21–22 September, 1989

Department of Inorganic, Physical and materials Chemistry  
of the University of Torino, Italy

Organised by the Technological Committee of the Italian Society of Science and Technology of Macromolecules.

In collaboration with the

Consiglio Nazionale delle Ricerche. progetto Finalizzato Chimica Fine e Secondaria—Sottoprogetto Chimica e Tecnologia dei Polimeri and the Groupe Français des Polymères

The flammability of organic polymeric materials is a cause of increasing concern and greatly restricts their use in some established or new applications. It also has adverse effects on technological development in which polymeric materials play a prominent part.

Most of the conventional methods employed to confer fire retardant properties on these materials fail to establish a minimum overall fire hazard. There is thus a pressing need to develop safer retardant systems. This in turn demands a further

knowledge of the various aspects of the combustion and fire retardance of polymeric materials.

The purpose of the Meeting, previously held in St. Denis, France 1985 and Lille, France 1987, is to provide an international forum for the presentation and discussion of advanced knowledge in this multidisciplinary field. In particular, the Meeting is intended to promote a profitable exchange between basic and applied research aiming at production of improved polymeric materials and supply of guidelines for significant test procedures and regulations.

### **Topics**

Fire retardance mechanisms in polymers, including thermal and thermooxidative degradation.

Fire retardant polymeric materials: synthesis, formulations, reaction to fire.

Smoke and toxicity in polymer combustion: mechanisms of formation, obscuration, corrosion, tests, regulations.

### **Organisation**

- Invited lectures
- Contributed papers for oral and poster presentation
- Exhibition of materials and techniques

### **Language**

The official language of the Meeting is English.

Send title of proposed paper and abstract (10 lines) before 15th December 1988 to Prof. L. Costa.

### **Address for correspondence**

PROF. L. COSTA

Dipartimento di Chimica Inorganica,  
Chimica Fisica e Chimica dei Materiali Dell'università di Torino  
Via P. Giuria, 7  
10125 Torino, Italy  
(Tel. (011) 688.875

**ESTAC 5  
FIFTH EUROPEAN SYMPOSIUM  
ON  
THERMAL ANALYSIS AND CALORIMETRY**

Nice, France  
August 26 to 30, 1991

Organizers: Prof. L. Elégant, Nice University  
Dr. J. Rouquerol, Marseille  
with the sponsorship of AFCAT (Association Française de Calorimétrie et  
d'Analyse Thermique)

Send mail to:

DR. J. ROUQUEROL,  
Thermodynamics and Microcalorimetry Center  
26 rue du 141ème R.I.A.  
13003 - Marseille - France