

# Announcement

## Fourth International Symposium on Polymer Analysis and Characterization (ISPAC)

May 29–31, 1991, Baltimore, Maryland

### Governing Board Members:

S. T. Balke, Univ. Toronto, Toronto, Canada; H. G. Barth,\* Du Pont Co., Wilmington, DE, USA; G. C. Berry, Carnegie-Mellon Univ., Pittsburgh, PA, USA; H.-J. Cantow, Univ. Freiburg, FRG; J. V. Dawkins,† Loughborough Univ. Tech., Loughborough, UK; G. Glöckner, Dresden Univ. Tech., Dresden, GDR; N. Hadjichristidis, Univ. Athens, Athens, Greece; J. Janca, Inst. Anal. Chem. Brno, Czechoslovakia; P. Kratochvil, Inst. Macromol. Chem., Prague, Czechoslovakia; S. Mori, Mie Univ., Mie, Japan; P. Munk, Univ. Texas at Austin, Austin, TX, USA; M. Rinaudo, CERMAV-CNRS, Grenoble, France

The three-day Symposium will consist of poster sessions, invited lectures, and round-table discussions and information exchange on recent advances in polymer characterization approaches, techniques, and applications. Topics will include chromatography and other separation methods, NMR, mass spectrometry, light scattering, rheology, microscopy, viscometry, thermal analysis, thermodynamics, and solution properties of polymers, as well as general contributions on polymer analysis and characterization. Contributions dealing with other techniques or special classes of polymers will also be included. Invited talks will be tutorial in nature and will include state-of-the-art development.

ISPAC is a nonprofit scientific organization. The purpose and scope of ISPAC are to provide an international forum for the presentation of recent advances in the field of polymer analysis and characterization methodologies. This is a unique Symposium that brings together analytical chemists and polymer scientists involved with the analysis and characterization of polymers. In order to promote discussion and information exchange, one-hour discussion periods are scheduled at the end of each technical session. These discussion periods not only deal with invited talks, but also poster presentations as well.

The first ISPAC meeting was held at the University of Toronto in June 1988, and ISPAC-2 took

place in Austin, Texas in April 1989. ISPAC-3, which was held in Brno, Czechoslovakia in July 1990, was organized by the Institute of Analytical Chemistry of the Czechoslovak Academy of Sciences under the sponsorship of the International Union of Pure and Applied Chemistry.

Full papers of invited talks and poster presentations will be published in the *Journal of Applied Polymer Science, Applied Polymer Symposium* edition. Manuscripts will be due on or before July 1, 1991. Instructions for manuscript preparation will be sent to participants. Previous ISPAC proceedings have been published in this journal: ISPAC-1: 43 (1989); ISPAC-2: 45 (1990); and ISPAC-3 (in press). (These volumes can be purchased from the Subscription Dept., John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10158, Tel: (212) 850-6645.)

### THEME: RECENT ADVANCES IN POLYMER CHARACTERIZATION

### PROGRAM

**Tuesday, May 28, 1991 (Evening): Registration**

**Wednesday, May 29, 1991**

***Solution and Thermodynamic Properties (Morning)***

Opening Address; Edward F. Casassa (Carnegie Mellon Univ.); Polymer Solutions and Characterization: Some Reflections on Serendipity; Pavel

\* Arrangement Chairman.

† Program Chairman.

Kratochvil/Zdenek Tuzar (Czech. Acad. Sci.); Block and Graft Copolymer Micelles: Formation, Structure, and Properties; Petr Munk (Univ. Texas at Austin): Inverse-Gas Chromatography; open discussion; lunch/Poster Session A.

***Characterization of Branched and Rigid Polymers (Afternoon)***

Patricia M. Cotts (IBM), Characterization and Solution Properties of Rigid and Semirigid Polymers; Jimmy W. Mays (Univ. Alabama), Dilute Solution Properties of Branched Macromolecules; Francis M. Mirabella (Quantum Chemical Co.), Characterization of Long-Chain Branching Distributions in Polyolefins by SEC-Viscometry; open discussion of talks and poster presentations; Wine-and-cheese evening social.

**Thursday, May 30, 1991**

***Separations and Viscometry (Morning)***

Karin Caldwell (Univ. Utah), Recent Advances in Field-Flow Fractionation of Macromolecules and Particles; Josef Janca (Czech. Acad. Sci.), Focusing Field-Flow Fractionation Techniques; Wallace W. Yau (Du Pont Co.), New Developments in Solution Viscometry and SEC-Viscometry; open discussion; lunch/Poster Session B.

***Separations (Afternoon)***

James Lesec (CNRS & ESPCI), Characterization of Water-Soluble Polymers Using SEC and Molecular-Weight-Sensitive Detectors; Leo Vilenchik

(Monsanto Chemical Co.), New Developments in Liquid Chromatographic Analysis of Branched Polymers; Gottfried Glöckner (Dresden Univ.), Characterization of Chemically Heterogeneous Polymers Using Liquid Chromatography; open discussion of talks and poster presentations; inner harbor boat cruise/dinner.

**Friday, May 31, 1991**

***Spectroscopy (Morning)***

Charles N. McEwen (Du Pont Co.), Developments in Mass Spectrometry of Synthetic and Biological Polymers; H. N. Cheng (Hercules, Inc.), Recent Developments in Solution NMR Studies of Synthetic Polymers; Luis H. Garcia-Rubio (Univ. South Florida), New Uses of UV-Visible Spectrophotometry for the Quantitative Characterization of Macromolecules; open discussion.

***Spectroscopy and Bulk Properties (Afternoon)***

Alan D. English (Du Pont Co.), Solid State NMR for the study of Polymer Dynamics; Linda Sawyer (Hoechst Celanese), Recent Advances in Microscopy of Polymers; H.-J. Cantow (Univ. Freiburg), Scanning Tunneling and Atomic Force Microscopy; open discussion.

To receive further information, please contact:

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