

## **News from Our Polymer Science Publications**

### **ADVANCES IN POLYMER SCIENCE**

I n P r e p a r a t i o n

Vol. 40: Luminescence

#### *1. Investigation of Polymers in Solution by Polarized Luminescence*

Authors: Prof. Dr. Elizaveta V. Anufrieva

Head, Polarized Luminescence Group, Institute of Macromolecular Compounds, Academy of Sciences USSR, Leningrad

Prof. Dr. Yu.Ya. Gotlib

Senior Research Fellow, Institute of Macromolecular Compounds, Academy of Sciences USSR, Leningrad

*For the first time this review presents the results of systematic investigations of macromolecules by polarized luminescence considering a broad class of homopolymers, random and block copolymers, polymer-polymer complexes, polymer networks and other multicomponent polymer systems.*

#### *2. Time-Resolved Fluorescence Techniques in Polymer and Biopolymer Studies*

Authors: Dr. K.P. Ghiggino

University of Melbourne, Australia

Dr. A.J. Roberts and Prof. D. Phillips

Davy Faraday Research Laboratory, The Royal Institution, London, U.K.

*The review describes an unusually recently developed experimental technique, which is rapidly rising in interest and indeed glamour. It will help to pull together polymer scientists and biochemists on one more front.*

Length: 200 pages

Cloth : DM 82.-- / Dollar 42.90

Available May 1981

Vol. 41: Speciality Polymers1. *Synthetic Nucleic Acid Analogs: Preparation and Interactions*

Authors: Prof. Dr.-Ing. K. Takemoto and Dr. Y. Inaki  
Osaka University, Osaka, Japan

2. *Statistical Theory of Polymeric Lyotropic Liquid Crystals*

Authors: Prof. Dr. A. Yu. Grosberg, Academy of Sciences USSR, Moscow  
Dr. A. R. Khokhlov, Moscow State University USSR, Moscow

3. *Interpolymer Complexes*

Authors: Prof. Dr. E. A. Bekturov and Dr. Larisa A. Bimendina  
Academy of Sciences of the Kazakh SSR, Alma-Ata, USSR

4. *Linear Polymers Containing Transition Metals in the Main Chain*

Authors: Prof. Dr. N. Hagihara, Prof. Dr. K. Sonogashira and  
Dr. S. Takahashi  
Osaka University, Osaka, Japan

Length: 216 pages

Cloth : DM 96,-- / Dollar 55.80

Available May 1981

Future Contributions

D.S. Johnston,  
*Macrozwitterion Polymerization*

E. Tsuchida, K. Abe,  
*Interactions Between Macromolecules in Solution and Intermacromolecular Complexes*

G.K. Elyashevich,  
*Thermodynamics and Kinetics of Orientational Crystallization of Flexible-Chain Polymers*

L.P. Myasnicova, V.A. Marickin,  
*Drawing and Mechanical Properties of Polymers*

M. Hasegawa,  
*Four-Center Type Photopolymerization in the Crystalline State*