

with. The symbol of the Academia, the lynx, is noted for its sharp sightedness; the volumes in the series will be penetrating studies of scientific topics of contemporary interest".

As one would expect from this author the promise of the second quoted sentence is amply fulfilled, but to what extent the lectures will provide an intelligible introduction to polymer dynamics for a broad non-specialized audience is more debatable. They will certainly give an idea of the kind of question that has been addressed, and often answered, in the explosive development of fundamental polymer physics initiated in the 1960s and 1970s. They will also give a general impression of the kind of spare, direct argument, often employing scaling laws, that has been applied with such remarkable success by de Gennes and his school. But this is not to say that the non-specialist will find the reasoning easy to follow and, to understand the arguments to the point of finding them convincing, a preliminary perusal of a more explanatory text, such as the lecturer's 1979 book¹, is probably necessary.

The first chapter deals with the fundamentals of polymer dynamics and includes a discussion of chemical kinetics in polymers.

In the second chapter an intriguing study of protein conformation is presented. Essentially the argument is that the highly complex 3-dimensional shapes of proteins can be explained in terms of the minimum 'loop length' that must occur between the individual members of a group of amino acids placed in close proximity and in a prescribed orientation at a receptor site. According to the foreword by G. Allegra, this work is previously unpublished except as a verbal comment at a conference more than 15 years ago.

A short chapter deals with the dry spreading of liquids on solid surfaces.

The final chapter treats drag reduction and the central idea is that, in the small regions (and short time scales) associated with turbulence, the polymer motion is governed by an elastic modulus rather than by viscosity. A key assumption is that there is a power law relationship between the elongation of the polymer chains and the size of the eddies.

Many research workers in the areas touched upon are likely to obtain some new insight of value from these lectures.

¹ de Gennes, P. G. 'Scaling Concepts in Polymer Physics', Cornell University Press, 1979

D. Pugh
University of Strathclyde

Erratum

Book review

Polymer 1990, 31, 2220

Polymer Alloys and Blends: Thermodynamics and Rheology

The authorship of this book should read:

L. A. Utracki and not *L. A. Utracki (Ed.)*

We apologize for this error.

XIIIth ANNUAL INTERNATIONAL CONFERENCE ON ADVANCES IN STABILIZATION AND DEGRADATION OF POLYMERS

MAY 22-24, 1991 – Luzern, Switzerland

Recent advances in the stabilization and degradation of polymers, many of them yet unpublished, will be presented by leading authorities in these fields. Internationally recognized scientists will act as panel discussion leaders in addition to presenting results of their recent findings in these areas of research.

INVITED SPEAKERS

Stabilization of Foamed Polyethylene Communication Cable Over Copper Conductors
Maureen G. Chan, AT&T Bell Laboratories, USA

Stabilization of Organic Coatings with Hindered Amino Ethers
Mark S. Holt, CIBA-GEIGY Co., USA

Recent Studies of the Biodegradation of Polymers and Biodegradable Polymers
Samuel J. Huang, The University of Connecticut, USA

Fluorophosphonites as Co-Stabilizers in the Stabilization of Polyolefins
G.J. Klender, Ethyl Corporation, USA

Mechanism of Energy Dissipation by Ultraviolet Absorbers
Horst E.A. Kramer, University of Stuttgart, Germany

Controlled-Release Antioxidants
Roy S. Lehrle, Fiona Keen, Amma Jakob and Szekeley, University of Birmingham, UK

Effectiveness of Hindered Amine Stabilizers Resides in the Production and Regeneration of their Hydroxy Derivatives
Jean Marchal and Claude Crouzet, Institut Charles Sadron, France

Stabilization of Polymers by Hindered Amines
Carlo Neri, Silvestro Costanzi, Vincenzo Malatesta, Rosella Farris, EniChem Synthesis (Enimont Group), Italy

Degradation and Stabilization of Varnishes for Paintings

E. Rene de la Rie, National Gallery of Art, USA

The Role of Singlet Oxygen in Photooxidation of Polymers

Ivan Schopov, Bulgarian Academy of Sciences, Calix[n]Arenes as Inhibitors of Polyolefin Oxidation - Efficiency and Proposed Mechanism

K. Seiffarth, G. Goermar, M. Schultz, Leuna-Werke AG, Germany

The Influence of Molecular Weight on the Efficiency of Phenolic Antioxidants as Stabilizers for Polypropylene

Jiri Tochacek, Research Institute of Macromolecular Chemistry, Czechoslovakia

Reactions of Amino Radicals with Hydroperoxides, Hydrocarbons and Phenols

V.T. Varlamov, USSR Academy of Sciences, USSR

Weathering Stability Testing

G. Zerlaut, DSET Laboratories, USA

Processing of Polyolefins

H. Zweifel, CIBA-GEIGY AG, Switzerland

SHORT COMMUNICATIONS/POSTER PAPERS: Participants are encouraged to present either poster papers or short communications (10-15 minutes) on significant recent findings in the areas of stabilization and degradation of polymers. A one-page abstract of the proposed presentations should be mailed to **Dr. A.V. Patsis** no later than April 1, 1991. No manuscripts are required for the short communications or the poster papers.

Scientific Program Chairman, **Dr. Peter Klemchuck** – CIBA-GEIGY Corp., USA

FURTHER INQUIRIES: All correspondence pertaining to the conference and the submission of papers should be sent to:

Conference Director, Professor Angelos V. Patsis
Institute of Materials Science, State University of NY, New Paltz, NY 12561 - USA

Tel. 914-257-3800 FAX: 914-255-0978