

Macromolecular Assemblies in Polymeric Systems

Pieter Stroeve, EDITOR
University of California–Davis

Anna C. Balazs, EDITOR
University of Pittsburgh

Developed from a symposium sponsored
by the Division of Polymer Chemistry, Inc.,
at the 201st National Meeting
of the American Chemical Society,
Atlanta, Georgia,
April 14–19, 1991



American Chemical Society, Washington, DC 1992



Library of Congress Cataloging-in-Publication Data

Macromolecular assemblies in polymeric systems/ Pieter Stroeve,
editor, Anna C. Balazs, editor.

p. cm.—(ACS Symposium Series, 0097–6156; 493).

“Developed from a symposium sponsored by the Division of Polymer
Chemistry, Inc., at the 201st National Meeting of the American
Chemical Society, Atlanta, Georgia, April 14–19, 1991.”

Includes bibliographical references and index.

ISBN 0–8412–2427–7

1. Macromolecules—Congresses. 2. Polymers—Congresses.
I. Stroeve, Pieter, 1945– . II. Balazs, Anna C., 1953–
III. American Chemical Society. Division of Polymer Chemistry.
IV. American Chemical Society. Meeting (201st: 1991: Atlanta, Ga.).
V. Series.

QD380.M23 1992
547.7—dc20

92–15020
CIP

The paper used in this publication meets the minimum requirements of American National
Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI
Z39.48–1984.



Copyright © 1992

American Chemical Society

All Rights Reserved. The appearance of the code at the bottom of the first page of each
chapter in this volume indicates the copyright owner's consent that reprographic copies of the
chapter may be made for personal or internal use or for the personal or internal use of
specific clients. This consent is given on the condition, however, that the copier pay the stated
per-copy fee through the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA
01970, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law.
This consent does not extend to copying or transmission by any means—graphic or
electronic—for any other purpose, such as for general distribution, for advertising or
promotional purposes, for creating a new collective work, for resale, or for information
storage and retrieval systems. The copying fee for each chapter is indicated in the code at the
bottom of the first page of the chapter.

The citation of trade names and/or names of manufacturers in this publication is not to be
construed as an endorsement or as approval by ACS of the commercial products or services
referenced herein; nor should the mere reference herein to any drawing, specification,
chemical process, or other data be regarded as a license or as a conveyance of any right or
permission to the holder, reader, or any other person or corporation, to manufacture,
reproduce, use, or sell any patented invention or copyrighted work that may in any way be
related thereto. Registered names, trademarks, etc., used in this publication, even without
specific indication thereof, are not to be considered unprotected by law.

PRINTED IN THE UNITED STATES OF AMERICA

**American Chemical Society
Library**

1155 16th St., N.W.

Washington, D.C. 20036

In Macromolecular Assemblies in Polymeric Systems; Stroeve, Pieter, et al.;
ACS Symposium Series; American Chemical Society: Washington, DC, 1992.

ACS Symposium Series

M. Joan Comstock, *Series Editor*

1992 ACS Books Advisory Board

V. Dean Adams
Tennessee Technological
University

Mark Arnold
University of Iowa

David Baker
University of Tennessee

Alexis T. Bell
University of California—Berkeley

Arindam Bose
Pfizer Central Research

Robert Brady
Naval Research Laboratory

Margaret A. Cavanaugh
National Science Foundation

Dennis W. Hess
Lehigh University

Hiroshi Ito
IBM Almaden Research Center

Madeleine M. Joullie
University of Pennsylvania

Mary A. Kaiser
E. I. du Pont de Nemours and
Company

Gretchen S. Kohl
Dow-Corning Corporation

Bonnie Lawlor
Institute for Scientific Information

John L. Massingill
Dow Chemical Company

Robert McGorin
Kraft General Foods

Julius J. Menn
Plant Sciences Institute,
U.S. Department of Agriculture

Vincent Pecoraro
University of Michigan

Marshall Phillips
Delmont Laboratories

A. Truman Schwartz
Macalaster College

John R. Shapley
University of Illinois
at Urbana—Champaign

Stephen A. Szabo
Conoco Inc.

Robert A. Weiss
University of Connecticut

Peter Willett
University of Sheffield (England)

Foreword

THE ACS SYMPOSIUM SERIES was founded in 1974 to provide a medium for publishing symposia quickly in book form. The format of the Series parallels that of the continuing **ADVANCES IN CHEMISTRY SERIES** except that, in order to save time, the papers are not typeset, but are reproduced as they are submitted by the authors in camera-ready form. Papers are reviewed under the supervision of the editors with the assistance of the Advisory Board and are selected to maintain the integrity of the symposia. Both reviews and reports of research are acceptable, because symposia may embrace both types of presentation. However, verbatim reproductions of previously published papers are not accepted.