

Contents

Preface, v

IUPAC Polymer Division (IV): History of IUPAC Polymer Terminology and Nomenclature, ix

Membership of the Sub-commission on Nomenclature (1952 to 1967), xiii

Membership of the Commission on Macromolecular Nomenclature (1968 to 2001), xiii

Membership of the Sub-committee on Macromolecular Terminology (2002 to 2005) and of the Sub-committee on Polymer Terminology (from 2005), xv

Meeting Locations of the Commission on Macromolecular Nomenclature (1968-2001) and of the Sub-committees on Macromolecular Terminology and Polymer Terminology (2002-2006), xvi

References, xvii

TERMINOLOGY, 1

- 1 Glossary of Basic Terms in Polymer Science (1996), 3
- 2 Stereochemical Definitions and Notations Relating to Polymers (1980), 22
- 3 Definitions of Terms Relating to Individual Macromolecules, their Assemblies, and Dilute Polymer Solutions (1988), 44
- 4 Basic Classification and Definitions of Polymerization Reactions (1994), 70
- 5 Definitions Relating to Stereochemically Asymmetric Polymerizations (2002), 73
- 6 Definitions of Terms Relating to Crystalline Polymers (1988), 80
- 7 Definitions of Terms Relating to Low-Molar-Mass and Polymer Liquid Crystals (2001), 93
- 8 Definitions of Terms Relating to the Non-Ulimate Mechanical Properties of polymers (1997), 146

- 9 Definitions of Terms Related to Polymer Blends, Composites, and Multiphase Polymeric Materials (2004), 186
- 10 Terminology of Polymers Containing Ionizable or Ionic Groups and of Polymers Containing Ions (2006), 205
- 11 Definitions of Terms Relating to the Structure and Processing of Sols, Gels, Networks and Inorganic-Organic Hybrid Materials (2007), 211
- 12 Definitions of Terms Relating to Reactions of Polymers and to Functional Polymeric Materials (2003), 237
- 13 Definitions of Terms Relating to Degradation, Aging, and Related Chemical Transformations of Polymers (1996), 251

NOMENCLATURE, 259

- 14 Introduction to Polymer Nomenclature, 261
- 15 Nomenclature of Regular Single-Strand Organic Polymers (2002), 280
- 16 Nomenclature of Regular Double-Strand (Ladder and Spiro) Organic Polymers (1993), 318
- 17 Structure-Based Nomenclature for Irregular Single-Strand Organic Polymers (1994), 336
- 18 Graphic Representations (Chemical Formulae) of Macromolecules (1994), 350
- 19 Source-Based Nomenclature for Copolymers (1985), 368
- 20 Source-Based Nomenclature for Non-Linear Macromolecules and Macromolecular Assemblies (1997), 382
- 21 Generic Source-Based Nomenclature for Polymers (2001), 394
- 22 Abbreviations, 403

APPENDIX

Bibliography of Biopolymer-Related IUPAC-IUBMB Nomenclature Recommendations, 408

INDEX, 411