

## Contents

### General Background

- 1- **Micelles and Reverse Micelles: A Historical Overview** P. Stenius
- 2- **Reverse Micelles and Aqueous Microphases** H.F.Eicke and P.Kvita
- 3- **Naturally Occuring Amphiphiles: Aspects of their Phase Behavior** H.Hauser

### Structure and Stability

- 1- **The Assemblies of Amphiphiles** F.Fromherz
- 2- **Purity of Aerosol-OT: Effect on Processes in Reversed Micelles and Water-in-Oil Microemulsion** P.D.I.Fletcher, N.M.Perrins and B.H.Robinson
- 3- **The Problem of Concentration and Reactivity in Reversed Micelles and Water-in-Oil Microemulsion** B. P.D.I.Fletcher, A.M.Howe, B.H.Robinson and D.C. Steyler
- 4- **Acidities and Basicities in Reversed Micellar Systems** O.A. EL Seoud
- 5- **Prospects for Chiral Discrimination in Reversed Micelles** L.J.Magid
- 6- **Hydrocarbon Aromaticity and W/O Microemulsion Stabilized by Nonionic Surfactants** S.E. Friberg, H. Christenson G. Bertrand and D.W. Larsen
- 7- **Aggregation States and Dynamics of Nonionic Polyoxyethylene Surfactants** A. Ribeiro
- 8- **Dynamic Behavior in Microemulsions** A.M.Cazabat, D. Chatenay, P. Guering, D. Langevin, J. Meunier and O. Sorba
- 9- **Microemulsions Stabilized by Oleate/Pentanol** E. Sjöblom, U. Henriksson and P. Stilbs
- 10- **Existence of Unstable Transparent « Solutions » in the AOT-Decane-Water System.** P.Delord and F.C. Larché

### Methodology

- 1- **Fluorescence: A Method to Obtain Information about Reverse Micellar Systems.** E.Galadé and F.C. de Schryver
- 2- **Picosecond Studies of Rose Benhal Fluorescence in Reverse Micellar systems** M.A.J. Rodgersz
- 3- **Magnesium Porphyrin Sensitized Reduction of Viologen sulfonate in Reverse Micelles** M.P.Pileni and J.M.Furois
- 4- **The Problem of Concentration and Reactivity in Reversed Micelles and Water-in-Oil Microemulsion** B. P.D.I.Fletcher, A.M.Howe, B.H.Robinson and D.C. Steyler
- 5- **<sup>13</sup>C NMR Studies of Molecular Configurations and Interactions in the Curved Surfactant Monolayers of Aerosol OT Water-In-Oil Microemulsions** L.Magid and C.A. Martin
- 6- **Small Angle Neutron Scattering by Micellar Nonionic Surfactant in Apolar media** J.C.Ravey and M. Buzier
- 7- **Electric Polarization of W/O Microemulsion; Studies Using Electric Birefringence** Z. Markovic

### Biological Relevance

- 1- **Lipid Polymorphism, Reverse Micelles and Phosphorus-31 Nuclear Magnetic Resonances** J.Seelig
- 2- **On the Structure, Dynamics and Possible Functional Roles of Inverted Micelles in Biological Systems** M. Montal
- 3- **The Formation of Reverse Mixed Micelles Consisting of Membrane Proteins and AOT in Isooctane** J.Wirz and J.P. Rosenbush
- 4- **Bile Salt Aggregation in Aqueous and Non-Aqueous Media.** S. Lindenbaum and M. Vadrere
- 5- **Normal Ganglioside Micelles in Aqueous solutio,: Interaction with Phospholipid Planar Bilayers** F.Gambale, C.Marchetti , C. Usai and M.Robello
- 6- **Exploring Peptide Interactions with Interfacial Water using Reversed Micelles** L.M. Gierasch, K.F.Thompson, J.E. Lacy and A.L. Rockwell
- 7- **Thermodynamics of Nucleic Acids Enclosed in Reverse Phase Vesicles** B.Brosius, G. Steger, W. Hillen and D. Riesner

### Applications

- 1- **Technological Relevance of Microemulsions and Reverse Micelles in Apolar Media** D. Langevin
- 2- **Recent Applications and Potentials of Surfactant Aggregates in Non-Polar Solvents** J. Fendler
- 3- **Enzymes and Nucleic Acids Solubilized in Hydrocarbon Solvents with the Help of reverse Micelles** P. Luisi, P.Meier, V.E. Imre and A Pande
- 4- **Hardened Reverse Micelles as Drug Delivery Systems** P. Speiser