

# Colloid & Polymer Science

Volume 273, Number 10, October 1995

## Editors

**Prof. Dr. E. Kremer**, Institut für Physik, Universität Leipzig, Linnéstr. 5, D-04103 Leipzig (Germany), Phone: (0) 341/6858-220, Fax (0) 341/6858-461

**Prof. Dr. G. Lagaly**, Institut für Anorganische Chemie, Universität Kiel, Olshausenstr. 40 – 60, D-24118 Kiel (Germany), Phone: (0) 431/880-3261, Fax (0) 431/880-1520

## Regional Editors

*North and South America:*

**Prof. Dr. E. J. Davis**, University of Washington, Department of Chemical Engineering, BF-10, Seattle, WA 98195 (USA) –  
**Dr. K. L. Ngai**, Department of the Navy, Naval Research Laboratory, Electronics Science & Technology Division, Code 6807, Washington, DC 20375-5000 (USA)

*Asia: Prof. Dr. M. Nakagaki*, Tokyo Institute of Colloid Science, 502 Yamauchi Bldg., Higashi-Nakano 4-4-3, Tokyo 164 (Japan)

*Great Britain: Prof. Dr. R. H. Ottewill*, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS (England)

*Scandinavia: Prof. Dr. B. Lindman*, Physical Chemistry 1, Chemical Center, Lund University, P.O.B. 124, S-22100 Lund (Sweden)

*CIS: Prof. Dr. Yu. K. Godovsky*, Karpov Institute of Physical Chemistry, 10, Ulitsa Obukha, Moscow (Russia)

*Southern Europe: Prof. Dr. G. Fytas*, Foundation for Research and Technology – Hellas, Institute of Electronic Structure & Laser, P.O. Box 1527, 7110 Heraklion (Crete, Greece)

## Original Contributions

- H. Hinsken, W. Borchard: Continuous swelling pressure equilibria of the system  $\kappa$ -carrageenan/water . . . . . 913  
J. Sonnfeld, A. Göbel, W. Vogelsberger: Surface charge density on spherical silica particles in aqueous alkali chloride solutions. Part 1. Experimental results . . . . . 926  
J. Sonnfeld: Surface charge density on spherical silica particles in aqueous alkali chloride solutions. Part 2. Evaluation of the surface charge density constants . . . . . 932  
V. Chhabra, M. Lal, A. N. Maitra, P. Ayyub: Preparation of ultrafine high density gamma ferric oxide using aerosol OT microemulsions and its characterization . . . . . 939  
Wang Hao Ping, Jin Jun, L. Blum: Approximate expressions of determining the double layer energy and force of interaction between two charged colloidal spheres . . . . . 947  
M. H. Selle, J. Sjöblom, R. Lindberg: Preparation of spherical, mixed  $\text{SiO}_2/\text{TiO}_2$  particles by the sol technique . . . . . 951  
P. C. Schulz, M. A. Morini, R. M. Minardi, J. E. Puig: The aggregation in dodecytrimethylammonium hydroxide aqueous solutions . . . . . 959  
D. Dragčević, M. Bujan, Ž. Grahek, N. Filipović-Vinceković: Adsorption at the air/water interface in dodecylammonium chloride/sodium dodecyl sulfate mixtures . . . . . 967  
J. Merta, P. Stenius: Interactions between cationic starch and anionic surfactants. 1. Phase equilibria and surface tensions . . . . . 974  
V. Chaplain, M. L. Janex, F. Lafuma, C. Graillat, R. Audebert: Coupling between polymer adsorption and colloidal particle aggregation . . . . . 984

## Obituary

- J. Schurz: Otto Kratky (March 1902 – February 1995) . . . . . 994

## Announcements

996



STEINKOPFF  
DARMSTADT