

**INVESTIGATION OF DYNAMICS OF COLLOID SYSTEMS  
BY SLOW NEUTRON SCATTERING**

**V.I. Slisenko, A.Ya. Dzyublik, T.V. Karmazina, P.G. Ivanitsky,  
A.A. Vasilkevich, N.I. Valkovska, V.S. Prokopenko, V.V. Krotenko**

The influence of graphite carbon black on molecular dynamics in water solution of triton X-100 has been investigated by the method of inelastic and quasielastic neutron scattering. At the beginning during 40 hours in the system water-surfactant-sorbent unstable partially hydrophobic colloid aggregates are shown to be predominate. After 40 hours this colloid particles become stable and completely hydrophilic.