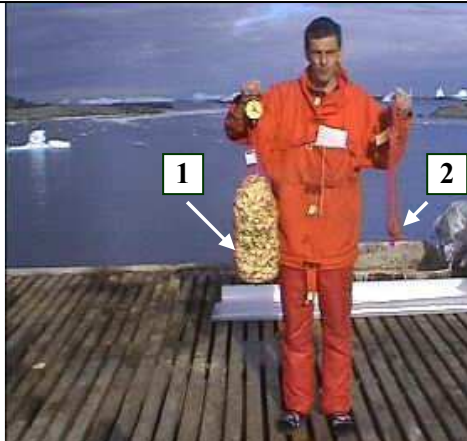


Ukrainian Antarctic Station Akademik Vernadsky
The RMM-Biotechnology for safety microbial anaerobic destruction of solid food Wastes
 (RMM – regulation of microbial metabolism)

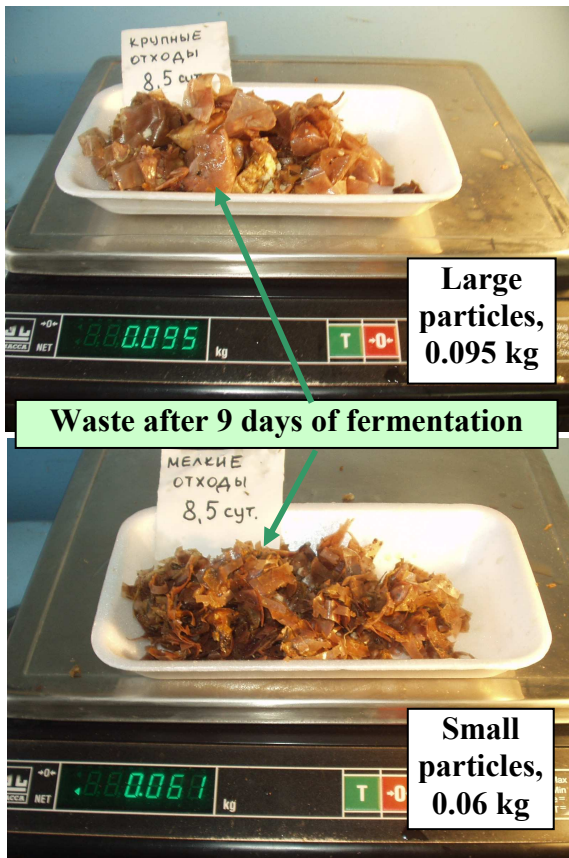
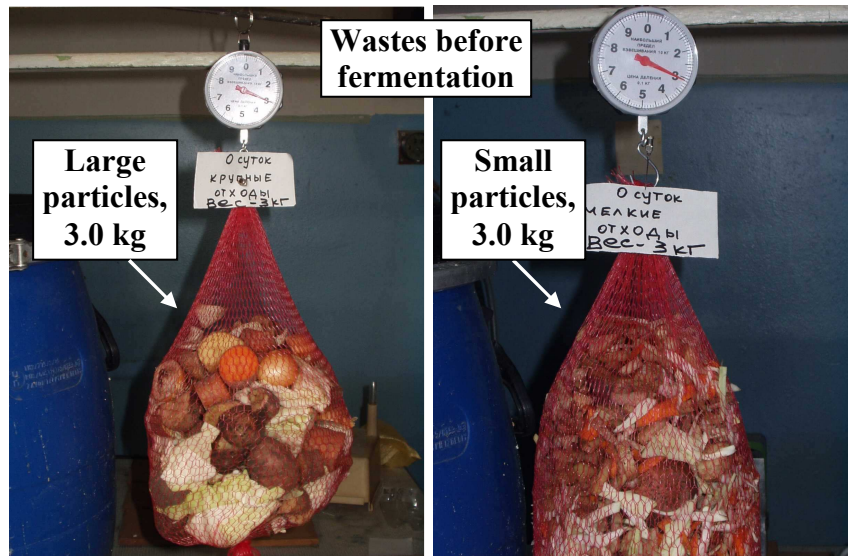


The industrial plant for digestion of solid food wastes at Antarctic station



1 - Waste before digestion. 2 - Waste after 5 days of fermentation

The RMM-Technology for Destruction and Detoxification
of Organic Solid Wastes at Municipal Garbage in Megapolyses.



Technological coefficients of effectiveness
of solid organic wastes utilization

1	Coefficient of wastes utilization K_d ; $K_d = m_1/m_2$ (m_1 – initial weight of waste, m_2 - final weight of waste, kg); $K_d = 22...50$
2	Temporal coefficient T – time for one technological cycle (days) $T = 5...12$
3	General coefficient of effectiveness of wastes utilization K_i ; $K_i = T/K_d$ $K_i = 0,1...0,5$
4	Coefficient of methane production effectiveness $K_{CH_4} = V/m_1$ (V -volume of methane) $K_{CH_4} = 8...10$
5	Coefficient of wastes utilization energetic effectiveness $K_E = K_{CH_4}/K_i$ $K_E = 16...100$

