

Glass is an interesting material which, despite its abundance in daily life usage, poses a number of still challenging questions. The problems arise from the production of the glass melt till the final morphology process of various products (packing glass, pane, fibres, crt's). The mathematical problems are related to solving the standard conservation laws of mass, momentum and energy. Glass can be considered to be Newtonian and incompressible. The main complication is in the coupling of momentum equation with the with energy equation, as the viscosity is exponentially depending on the temperature. Another complication is the fact that there are free and moving boundaries. This minisymposium will consider various aspects of this morphology process. The first speaker (S. Nefedov, Eindhoven) will discuss some simple models for the flow in the glass tank. The three other speakers will all consider the forming of glass products. B. Maury (Paris) will talk about free surface flows. The third speaker (S. Manservigi, Oxford) will have a talk on sagging of wind screens and the last speaker (K. Laevsky, Eindhoven) will discuss morphology of a parison for bottles.