

Special Issue

Vortical Flows in Memory of Professor Ippolit Stepanovich Gromeka

Message from the Guest Editor

Professor Ippolit Stepanovich Gromeka (27/01/1851–13/10/1889) was one of the founding fathers of modern fluid mechanics. Gromeka died young at 38 years old leaving a pioneering legacy in many areas of fluid mechanics and after solving some of the difficult problems in the field for the first time. His legacy is often overlooked in modern literature; however, the influence of his seminal work is manifested in almost every direction of fluid mechanics' research. During his brief academic and teaching career, Gromeka gained well-deserved fame as an excellent professor and a remarkable scientist. With his works, Gromeka laid the foundations for vortical flows and flows with transverse circulation (1882), which acquired great practical importance in hydraulic engineering. He also studied the unsteady motion of a viscous fluid (1882) and the vortex motions of a fluid on the surface of a sphere (1885).

This Special Issue is dedicated to honor Gromeka's memory and contributions and will consider manuscripts related to vortical and rotational flows at large.

Keywords: physiological flows; helical flows; capillary flow; hydrodynamics; vortex motion

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