

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

Guest Editor

Dr. Khalid M. Saqr

1. College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria P.O. Box 1029, Egypt
2. Institute of Fluid Science, Tohoku University, Miyagi 980-8577, Japan

Deadline for manuscript submissions

closed (15 December 2023)



Fluids

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.0



mdpi.com/si/142720

Fluids
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fluids@mdpi.com

[mdpi.com/journal/
fluids](https://mdpi.com/journal/fluids)





Fluids

an Open Access Journal
by MDPI

Impact Factor 1.8
CiteScore 4.0



[mdpi.com/journal/
fluids](https://mdpi.com/journal/fluids)



About the Journal

Message from the Editor-in-Chief

Fluids (ISSN 2311-5521) is an international journal on all aspects of fluids in open access format: research articles, reviews and other contents are released on the internet immediately after acceptance. You are invited to contribute a research article or a comprehensive review for consideration and publication in *Fluids*. The scientific community and the general public have unlimited free access to the content as soon as it is published. Please consider *Fluids* as an exceptional, exciting enterprise ready to reward your trust, attention, and active participation.

Editor-in-Chief

Prof. Dr. D. Andrew S. Rees

Department of Mechanical Engineering, University of Bath, Bath BA2 7AY, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Mechanical Engineering)