Editorial: Introducing *Physical Review Fluids*

Welcome to the first issue of *Physical Review Fluids* (*PRFluids*), the newest journal published by the American Physical Society (APS). The field of fluid mechanics is vibrant, international, and dynamic, with many interdisciplinary applications across all areas of the physical and biological sciences, as well as engineering. *PRFluids* aims to serve these diverse communities by publishing the very highest quality research in all aspects of fluid mechanics. We are delighted with the very strong response *PRFluids* has received, as evidenced by the high quality of the papers published in this first issue, which are authored by intellectual leaders in the field.

John Kim and Gary Leal, founding Editors of *PRFluids*, are joined by an outstanding team of Associate Editors and Editorial Board members, each of whom are accomplished leading researchers in their fields. *PRFluids* is the latest addition to the renowned *Physical Review* (*Phys. Rev.*) family of journals, and it is created with the same commitment to excellence, timeliness, and service. We look forward to engaging a broad readership that extends beyond the usual fluid mechanics community.

PRFluids will publish papers both in the classical areas of fluid mechanics, and also in the newer areas of the subject, such as flow problems involving complex fluids, bio-fluid mechanics, and micro- and nano-fluid dynamics. The scope of the journal will be reviewed regularly to ensure that it continues to serve the needs of the community and captures the most interesting papers in the field.

In order to be considered for publication in *PRFluids*, a submission should provide an improved understanding of the fundamental physics of fluid dynamics, present new and novel flow physics, or offer new insights into flow physics. The journal will initially publish two types of papers: Research Articles, to be handled by the journal Editors and Associate Editors, and Rapid Communications, to be handled by our Associate Editor for Rapid Communications. Rapid Communications must satisfy the criterion of major impact and contain new results that are worthy of rapid dissemination.

PRFluids is being published in close cooperation with the APS Division of Fluid Dynamics (DFD). Two special contributions from the annual APS/DFD meeting will appear annually: the winning posters and videos from the annual Gallery of Fluid Motion contest, and invited perspective papers based upon the plenary invited lecturers at the annual meeting of the DFD. Beginning in 2017, the APS Frenkiel Award will be awarded to young authors in recognition of significant contributions to fluid mechanics that have been published during the previous year in *PRFluids*.

The launch of *PRFluids* marks an exciting new initiative in fluid mechanics publishing, and we are confident that it will quickly establish itself as the premier journal in the field. However, the ultimate success of *PRFluids* depends upon the quality of the submissions we receive. We call on all fluid mechanics researchers to submit their best work to this journal and encourage their colleagues to do the same. We look forward to receiving your contributions.

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