Record Nr. UNINA9910784438803321 A gallery of fluid motion / / [edited by] M. Samimy [and three others] **Titolo** [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2003 **ISBN** 1-107-14732-8 0-511-61082-3 1-280-44919-5 9786610449194 0-511-18429-8 0-511-16599-4 0-511-16404-1 0-511-31287-3 0-511-16484-X Descrizione fisica 1 online resource (x, 118 pages): digital, PDF file(s) Disciplina 681/.28 Soggetti Flow visualization Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Title from publisher's bibliographic system (viewed on 05 Oct 2015). Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Half-title; Title; Copyright; Contents; Introduction; 1 Jets and mixing layers; 2 Vortices; 3 Patterns; 4 Drops and bubbles; 5 Complex fluids: 6 Flows with interfaces: 7 Free surface interaction: 8 Combustion; 9 Instability; 10 Transition and turbulence; 11 Compressible flows; Keyword Index Sommario/riassunto Images of fluids in motion have served both scientific and artistic purposes at least since the time of Leonardo de Vinci over 500 years ago. The visualization of fluid flow has played a major role in the development of fluid dynamics and its technological and scientific applications, from the evolution of flight to the tracking of weather to understanding the flow of blood. Today, the Division of Fluid Dynamics of the American Physical Society annually sponsors a competition for outstanding images of fluid flow, judged by their artistic beauty and novelty and their contribution to the better understanding of fluid dynamics. This Gallery is a selection of the images that have won the

competition over the last seventeen years. Each image is accompanied by some explanatory text, aimed at making the collection an attractive and essential work for everyone interested in the art and science of fluid flow.