

Editor Profile, November 2011

Professor Charles Meneveau
Editor-in-Chief of the *Journal of Turbulence*

Charles Meneveau is a professor in the [Department of Mechanical Engineering](#) at [Johns Hopkins University](#). He also has a joint appointment in the [Geography and Environmental Engineering Department](#) and serves as the director of the [Center of Environmental and Applied Fluid Mechanics](#) at Johns Hopkins. He received his B.S. degree in Mechanical Engineering from the Universidad Técnica Federico Santa María in Valparaíso, Chile, in 1985 and M.S, M.Phil. and Ph.D. degrees from Yale University in 1987, 1988 and 1989, respectively. During 1989/90 he was a postdoctoral fellow at the Stanford University/NASA Ames' Center for Turbulence Research.



Professor Meneveau has been on the Johns Hopkins faculty since 1990. His area of research is focused on understanding and modeling hydrodynamic turbulence, and complexity in fluid mechanics in general. He combines experimental, computational and theoretical tools for his research. Special emphasis is placed on the multiscale aspects of turbulence, using appropriate tools such as fractal geometry, downscaling techniques, wavelet analysis, and applications to Large Eddy Simulation and subgrid-scale modeling.

The insights that have emerged from Professor Meneveau's work have led to new numerical models for Computational Fluid Dynamics and applications in engineering and environmental flows. With his students and co-workers, he has authored over 80 peer-reviewed articles. Recently, the ISI has recognized the article "Scale Invariance and Turbulence Models for LES" (2000, with J. Katz) as a "Highly Cited Article", placing it in the top 1% within its field.

Professor Meneveau is Fellow of the [American Physical Society](#) and the [American Society of Mechanical Engineers](#). He has received the 2004 [UCAR](#) Outstanding Publication award (in collaboration with several NCAR researchers), the Johns Hopkins University Alumni Association's Excellence in Teaching Award (2003), and the APS' François N. Frenkiel Award for Fluid Mechanics (2001). Besides his activities as Joint Editor-in-Chief of the *Journal of Turbulence*, he is member of the Editorial Committee of the *Annual Reviews of Fluid Mechanics*, and will join the board of Associate Editors of the *Journal of Fluid Mechanics* in September 2005. More information about his research activities can be obtained from the Turbulence Research Group homepage at [Johns Hopkins](#).