Richard McLaughlin, Ph.D.

Professor, Department of Mathematics, College of Arts and Sciences at UNC-Chapel Hill
Chapel Hill, NC, US

Richard McLaughlin specializes in fluid dynamics. He is co-director of the Joint Applied Math and Marine Sciences Fluid Lab.

Richard McLaughlin is professor and chair of the Department of Mathematics at the University of North Carolina at Chapel Hill. He is a leading expert on fluid dynamics. McLaughlin is co-director (along with Kenan Professor of Mathematics Roberto Camassa) of the Joint Applied Mathematics and Marine Sciences Fluids Lab, an interdisciplinary research lab in the Carolina Center of Interdisciplinary and Applied Mathematics. The fluids lab is a collaborative effort between professors, postdoctoral research associates, graduate students, undergraduate students and high school students in the mathematics, marine sciences, biology and physics departments. About $10 million in competitive National Science Foundation, U.S. Defense Department and National Institutes of Health grants have been awarded to research projects centered around fluids lab facilities, which include a 120-foot wave tank, state-of-the-art thermal lab and large-scale wind tunnel. McLaughlin is also a member of the Carolina Center for Interdisciplinary Applied Mathematics, which started in 1996 as a result of a UNC initiative to provide expertise in mathematical modeling and computational science for the campus, and to integrate this expertise into research collaborations and undergraduate and graduate training. The center integrates research and educational activities in mathematics and its intimate ties with the physical, engineering, biological, medical and social sciences.

Fluid Dynamics, Bio-Fluid Transport, Mixing and Turbulent Transport, Mixing in Stratified Flow, Mathematics

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Princeton University
Ph.D. Applied and Computational Mathematics

Princeton University
M.S. Applied and Computational Mathematics

University of Arizona
B.S. Mathematics

Milton van Dyke Award
Top prize for poster at the 68th annual meeting of the American Physical Society?s Division of Fluid Dynamics. Awarded to the UNC Joint Applied Math and Marine Sciences Fluids Lab.

NSF Early Faculty Career Grant
1997 - 2003 $200,000

Instructorship Award (Teaching and Research)
1996 Department of Mathematics, University of Utah

NSF Travel Award
1996

NSF Mathematical Sciences Postdoctoral Fellowship
1994 - 1997

DOE Computational Science Graduate Fellowship
1991 - 1994
