

Appendix

NAME/TERM

AREA OF INTEREST

POSTDOCTORAL FELLOWS

BELCHER, Dr. Stephen E. 10/90-present	(Ph.D. DAMTP, 1990 Univ. of Cambridge)	Modeling turbulent boundary layers near separation.
BUELL, Dr. Jeffrey C. 1/89-12/90	(Ph.D. Mech. Engr., 1986, UCLA)	Physics and modeling of 3-D spatially developing mixing layer/physics of compressible wall-bounded flows.
CABOT, Dr. William H. 3/88-present	(Ph.D. Physics, 1983 Univ. of Rochester)	Turbulence in the early solar nebula and turbulence in compressible flows.
GAO, Dr. Feng 9/90-present	(Ph.D. Mech. Engr., 1990, SUNY-Stony Brook)	Investigations of turbulent scalar fields using probability density function approach.
HUANG, Dr. George 3/88-present	(Ph.D. Mech. Engr., 1986, Univ. of Manchester)	Modeling hypersonic boundary layer flows with second-moment closure.
LEE, Dr. Moon J. 12/87-10/90	(Ph.D. Mech. Engr., 1985, Stanford)	Turbulence physics and modeling.
LUND, Dr. Thomas S. 11/90-present	(Ph.D. Aero-Astro, 1987, Stanford)	Large eddy simulation of complex flows.
MENEVEAU, Dr. Charles 9/89-8/90	(Ph.D. Mech. Engr., 1989, Yale)	Study of structure and dynamics of turbulence using the wavelet transform.

POINSOT, Dr. Thierry 9/88-8/90	(Docteur es Sciences, Mech. Engr., 1987, Univ. d'Orsay, France)	Direct simulation of turbulent reacting flows.
SAMUELS, Dr. David C. 10/90-present	(Ph.D. Physics, 1990, Univ. of Oregon)	High Reynolds number flows in superfluid helium II.
SHEN, Dr. Hubert 1/90-present	(Ph.D. Physics, 1988, Univ. of Illinois)	Turbulence theory.
SMITH, Dr. Leslie M. 9/88-present	(Ph.D. Applied Math., 1988, MIT)	Renormalization group theory of turbulence.
SQUIRES, Dr. Kyle D. 7/90-present	(Ph.D. Mech. Engr., 1990, Stanford)	Turbulence model develop- ment using a Lagrangian data base and examination of sub-grid scale models for compressible turbulence.
STRETCH, Dr. Derek D. 1/89-1/91	(Ph.D. Engineering, 1986, Cambridge)	Conditional sampling and organized structures in turbulent boundary layers.
THOMPSON, Dr. Kevin W. 6/87-6/90	(Ph.D. Physics, 1985, Princeton)	Direct numerical simulation of compressible turbulent flows with application to the early evolution of solar nebula.
TROUVE, Dr. Arnaud 4/90-present	(Ph.D. Mech. Engr., 1989, Ecole Centrale de Paris)	Direct simulation of turbulent reactive flows.
VASTANO, Dr. John A. 9/88-8/90	(Ph.D. Physics, 1988, Univ. of Texas at Austin)	Low dimensional chaos in turbulence.
VEERAVALLI, Dr. Srinivas 9/89-present	(Ph.D. Mech. Engr., 1989, Cornell Univ.)	Effect of rotation turbu- lence, and experiments in high Reynolds number turbulence.
VEGT, Dr. J. J. W. van der 9/88-present	(Ph.D. Math., 1988, Delft Univ. of Tech., The Netherlands)	Transition to turbulence at hypersonic speeds.

WALEFFE, Dr. Fabian A. 9/89-1/91	(Ph.D. Applied Math., 1989, MIT)	Hydrodynamic stability and non-linear analysis.
WATMUFF, Dr. Jonathan H. 11/87-11/90	(Ph.D. Mech. Engr., 1979, Univ. of Melbourne, Australia)	Experimental investigation of turbulent boundary layers with adverse pressure gradient.
ZHOU, Dr. Ye 10/90-present	(Ph.D. Physics 1987, College of William & Mary)	Recursive renormalization group based on sub-grid modeling.

SENIOR RESEARCH FELLOWS

DURBIN, Dr. Paul 1/90-present	(Ph.D. DAMTP, 1979, Univ. of Cambridge)	Turbulence modeling.
ZEMAN, Dr. Otto 3/89-present	(Ph.D. Aerospace Engr., 1975, Pennsylvania State Univ.)	Modeling high Mach number turbulent flows.

SENIOR VISITING FELLOWS

CAMBON, C. 3/90-8/90	Professor of Fluid Mech., Ecole Centrale de Lyon	Effect of rotation on turbulence and rapid distortion theory; two point and single point closures.
CRIMINALE, William O. 3/90-6/90	Professor, Applied Math., University of Washington	Initial-value problems in shear flows.
GOTOH, Toshiyuki 11/90-12/90	Professor, Nagoya Inst. of Technology	Lagrangian turbulence modeling.
JIMENEZ, Javier 7/90-11/90	Professor, University of Madrid	Fractal interfaces and product generation in mixing layers.
MATHIEU, Jean 9/90-12/90	Professor, Ecole Centrale de Lyon-PEPIT	Turbulence theory.

ORLANDI, Paolo 6/90-9/90	Professor, Dept. of Mech. & Aero., Univ. of Rome	Numerical simulation of incompressible flow in complex geometry.
OTTINO, Julio M. 12/89-4/90	Professor, Chem. Engr., University of Massachusetts-Amherst	Mixing and chaos.
YAVUZKURT, Savash 9/90-present	Professor, Pennsylvania State University	Characterization of length and velocity scales of free stream turbulence and their effect on surface heat transfer.

GRADUATE STUDENTS

BEAUDAN, Patrick 10/87-present		Large eddy simulation of flow over a cylinder.
BLAISDELL, Gregory 7/90-11/90		Direct numerical simulation of compressible turbulent shear flow.
KARASSO, Paris 7/89-present		Experimental investigation of a curved shear layer.
KASSINOS, Stavros 10/88-present		Reynolds averaged turbulence modeling.
LE, Hung 4/88-9/90		Direct numerical simulation of flow over a backward facing step.
LIN, Tony Y.-C. 10/89-9/90		3D and unsteady geophysical flows.
SHIN, Dongshin 10/90-present		Linear stability analysis for chemically reacting high Mach number flows.

1990 ADVISORY COMMITTEE

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