

JAMES G GLIMM

EDUCATION

A.B. Columbia University 1956
A.M. Columbia University 1957
Ph.D. Columbia University 1959

POSITIONS

- 1959-1960 Temporary Member, Institute for Advanced Study
- 1960-1963 Assistant Professor, Massachusetts Institute of Technology
- 1963-1966 Associate Professor, Massachusetts Institute of Technology
- 1963-1964 Temporary Member, Courant Institute, New York University
- 1964-1965 Visiting Associate Professor, Courant Institute, NYU
- 1966-1968 Professor, Massachusetts Institute of Technology
- 1968-1974 Professor, Courant Institute, New York University
- 1974-1982 Professor, The Rockefeller University
- 1982-1989 Professor, Courant Institute, New York University
- 1988-1989 Visiting Leading Professor, SUNY at Stony Brook
- 1990- Distinguished Leading Professor, and Chair, Department of Applied Mathematics and Statistics, SUNY at Stony Brook
- 1999-2004 Director, Center for Data Intensive Computing, BNL

PRIZES AND FELLOWSHIPS

- National Medal of Science, 2002
- Steele Prize for a paper of fundamental importance, American Mathematical Society (1993)
- Dannie Heineman prize for Mathematical Physics (1980)
- New York Academy of Science Award in the Physical and Mathematical Sciences (1979)

References

- [1] E. George and J. Glimm. Self similarity of Rayleigh-Taylor mixing rates. *Phys. Fluids*, 17:1–13, 2005. Stony Brook University Preprint number SUNYSB-AMS-04-05.
- [2] E. George, J. Glimm, X. L. Li, Y. H. Li, and X. F. Liu. The influence of scale-breaking phenomena on turbulent mixing rates. *Phys. Rev. E*, 73:016304, 2006.
- [3] H. Lim, J. Iwerks, J. Glimm, and D. H. Sharp. Nonideal Rayleigh-Taylor mixing. *PNAS*, 2009. Submitted. Stony Brook Preprint SUNYSB-AMS-09-05 and Los Alamos National Laboratory preprint number LA-UR 09-06333.
- [4] H. Lim, J. Iwerks, Y. Yu, J. Glimm, and D. H. Sharp. Verification and validation for turbulent mixing. *Physica Scripta*, 2009. Submitted. Stony Brook Preprint SUNYSB-AMS-09-07 and Los Alamos National Laboratory preprint number LA-UR 09-07240.
- [5] H. Lim, Y. Yu, J. Glimm, X.-L. Li, and D. H. Sharp. Chaos, transport, and mesh convergence for fluid mixing. *Acta Mathematicae Applicatae Sinica*, 24:355–368, 2008. Stony Brook University Preprint SUNYSB-AMS-07-09 Los Alamos National Laboratory preprint number LA-UR-08-0068.
- [6] H. Lim, Y. Yu, J. Glimm, X. L. Li, and D. H. Sharp. Subgrid models in turbulent mixing. *ASTRONUM proceedings*, 2008. Stony Brook Preprint SUNYSB-AMS-09-01 and Los Alamos National Laboratory Preprint LA-UR 08-05999; Submitted for Publication.
- [7] H. Lim, Y. Yu, J. Glimm, X. L. Li, and D. H. Sharp. Subgrid models for mass and thermal diffusion in turbulent mixing. *Physica Scripta*, 2009. Stony Brook Preprint SUNYSB-AMS-08-07 and Los Alamos National Laboratory Preprint LA-UR 08-07725; Submitted for Publication.
- [8] H. Lim, Y. Yu, J. Glimm, and D. H. Sharp. Mathematical, physical and numerical principles essential for models of turbulent mixing. *IMA Proceedings*, 2009. Stony Brook University Preprint SUNYSB-AMS-09-08 and Los Alamos National Laboratory preprint number LA-UR-09-008281; Submitted for Publication.

- [9] H. Lim, Y. Yu, J. Glimm, and D. H. Sharp. Nearly discontinuous chaotic mixing. *High Energy Density Physics*, 2010. Stony Brook University Preprint SUNYSB-AMS-09-02 and Los Alamos National Laboratory preprint number LA-UR-09-01364; Accepted.
- [10] X. F. Liu, E. George, W. Bo, and J. Glimm. Turbulent mixing with physical mass diffusion. *Phys. Rev. E*, 73:056301, 2006.