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Born:

March 2, 1961, Pierre, SD

EDUCATION:

Ph.D. in Physics, U. Texas, Austin 1991 (thesis advisor: H. Swinney)

B.S. in Physics, summa cum laude, U. of Notre Dame, 1983

PROFESSIONAL EXPERIENCE:

1996–Present Assistant Professor of Physics, Georgia Institute of Technology

1993–1996 Postdoctoral Fellow, Department of Physics, U. Texas, Austin

1992 Lecturer, Department of Physics, U. Texas, Austin

HONORS:

Cottrell Scholar (1999)

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

J. Rogers, D. Semwogerere, K. Krishan

CURRENT RESEARCH SUPPORT:

National Science Foundation, Research Corporation

OTHER COLLABORATORS (in past 48 months):

A. Zangwill, W. Pesch, H. Rockwood, K. Wiesenfeld, J. Swift, G. P. Neitzel, M. Smith,
R. Kelly, D. Kandel, N. Israeli, W. McCormick, H. Swinney

SELECTED PUBLICATIONS:

1. “Evolution of hexagonal patterns from controlled initial conditions in a Bénard convection experiment” (with D. Semwogerere) submitted to *Phys. Rev. Lett.* (2001).
2. “Convective instability of strained-layer step-flow” (with N. Israeli, D. Kandel, and A. Zangwill) to appear *Surface Sci. Lett.* (2001).
3. “Experiments on thermocapillary instabilities” (with G. P. Neitzel) *Annu. Rev. Fluid Mech.* **33**, 93 (2001).
4. “Superlattice patterns in vertically oscillated Rayleigh-Bénard convection” (with J. L. Rogers, O. Brausch, and W. Pesch) *Phys. Rev. Lett.* **85**, 4281 (2000).
5. “Measurements of surface-wave-damping in a container” (with D. R. Howell, B. Buhrow, T. Heath, C. McKenna, and W. Hwong) *Phys. Fluids* **12**, 322 (2000).
6. “Rayleigh-Bénard convection in a vertically oscillated fluid layer” (with J. L. Rogers, J. L. Bougie, and J. B. Swift) *Phys. Rev. Lett.* **84**, 87 (2000).
7. “Time-independent square patterns in surface-tension-driven Bénard convection” (with S. J. VanHook, J. B. Swift, W. McCormick, and H. Swinney) *Phys. Fluids* **11**, 2577 (1999).
8. “Long-wavelength surface-tension-driven Bénard convection: experiment and theory,” (with S. J. VanHook, J. B. Swift, W. D. McCormick, and H. L. Swinney) *J. Fluid Mech.* **345**, 45 (1997).
9. “Nonlinear control of remote unstable states in a liquid bridge convection experiment,” (with V. Petrov, K. A. Muehlner, S. J. VanHook, W. D. McCormick, J. B. Swift, and H. L. Swinney) *Phys. Rev. Lett.* **77**, 3779 (1996).
10. “Onset of surface-tension-driven Bénard convection” (with S. J. VanHook, J. B. Swift, W. McCormick, and H. Swinney) *Phys. Rev. Lett.* **75**, 1938 (1995).