

**G. Paul Neitzel**  
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Georgia Institute of Technology, Atlanta, GA 30332-0405

## EDUCATION

The Johns Hopkins University	Fluid Mechanics	Ph.D., 1979
The Johns Hopkins University	Numerical Science	M.S., 1974
Rollins College	Mathematics/Physics	B.S., 1969

## PROFESSIONAL EXPERIENCE

1990-present	Professor of Mechanical Engineering, Georgia Institute of Technology
1979-1990	Assistant Professor/Associate Professor/Professor of Mechanical & Aerospace Engineering, Arizona State University
1995	Professeur Invité, Institut de Mécanique des Fluides, Université d'Aix-Marseille 2 (France)
1986	Visiting Professor, Department of Mathematics, Imperial College of Science and Technology (England)
1985-1986	Alexander von Humboldt Research Fellow, Institut für Strömungslehre und Strömungsmaschinen, Universität Karlsruhe (Germany)
1969-1979	Mathematician/Aerospace Engineer, U.S. Army Ballistic Research Laboratory

## HONORS:

Fellow, American Physical Society; Fellow, American Society of Mechanical Engineers; Associate Fellow, American Institute of Aeronautics & Astronautics; NSF Presidential Young Investigator; Alexander von Humboldt Research Fellow

## GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years)

P. Sucosky, P. Nagy, M. I. Carnasciali, L. B. S. Sumner, R. J. Riley

## OTHER COLLABORATORS (in past 48 months):

M. K. Smith, M. F. Schatz, P. Dell'Aversana, V. Tontodonato, L. Freed, G. Vunjak-Novakovic, J.-P. Fontaine, P. Hintz, S. Benz

## SELECTED PUBLICATIONS

1. Riley, R. J. and Neitzel, G. P., "Instability of Thermocapillary-Buoyancy Convection in Shallow Layers. Part 1. Characterization of steady and oscillatory instabilities," *Journal of Fluid Mechanics*, **359**, 141-163, 1998.
2. Benz, S., Hintz, P., Riley, R. J. and Neitzel, G. P., "Instability of Thermocapillary-Buoyancy Convection in Shallow Layers. Part 2. Suppression of Hydrothermal Waves," *Journal of Fluid Mechanics*, **359**, 165-180, 1998.
3. Sumner, L. B. S., Neitzel, G. P., Fontaine, , J.-P. and Dell'Aversana, P., "Oscillatory Thermocapillary Convection in Liquid Bridges With Highly Deformed Free Surfaces. Experiments and Energy-Stability Analysis, *Physics of Fluids* **13**, 107-120, 2001.
4. Schatz, M. F. and Neitzel, G. P., "Experiments on Thermocapillary Instabilities," *Annual Review of Fluid Mechanics* **33**, 93-127, 2001.
5. Neitzel, G. P. and Dell'Aversana, P., "Noncoalescence and Non-Wetting Behavior of Liquids," *Annual Review of Fluid Mechanics* **34**, 267-289, 2002.
6. Neitzel, G.P., Chang, K.-T., Jankowski, D.F. and Mittelmann, H.D., "Linear Stability of Thermocapillary Convection in a Model of the Float-Zone, Crystal-Growth Process," *The Physics of Fluids A*, **5**, 108-114, 1993.
7. Neitzel, G.P., Smith, M.K, and Bolander, M. J., "Thermal Instability with Radiation by the Method of Energy," *International Journal of Heat and Mass Transfer*, **37** 2909-2915, 1994.