

## **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)

L. B. S. Sumner, P. Sucusky, P. Nagy, M. I. Carnasciali, R. Macmeccan, T. Durbin, J. P. Watson

### **OTHER COLLABORATORS** (in past 48 months):

M. K. Smith, M. F. Schatz, W. P. King, L. B. S. Sumner, P. Dell'Aversana, L. Freed, G. Vunjak-Novakovic, J.-P. Fontaine

### **SELECTED PUBLICATIONS**

1. Dell'Aversana, P. and Neitzel, G. P., "Behavior of Noncoalescing and Nonwetting Drops in Stable and Marginally Stable States," *Experiments in Fluids* 36, 299-309, 2004.
2. Sucusky, P., Osorio, D., Brown, J. B. and Neitzel, G.P., "Fluid Mechanics of a Spinner Flask Bioreactor," *Biotechnology and Bioengineering* 85, 34-46, 2004 .
3. Sumner, L. B. S., Wood, A. M. and Neitzel, G. P., "Lubrication Analysis of Thermocapillary-Induced Non-Wetting," *Physics of Fluids* 15, 2923-2933, 2003.
4. Neitzel, G. P. and Dell'Aversana, P., "Noncoalescence and Non-Wetting Behavior of Liquids," *Annual Review of Fluid Mechanics* 34, 267-289, 2002.
5. Schatz, M. F. and Neitzel, G. P., "Experiments on Thermocapillary Instabilities," *Annual Review of Fluid Mechanics* 33, 93-127, 2001.
6. 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.
7. 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.