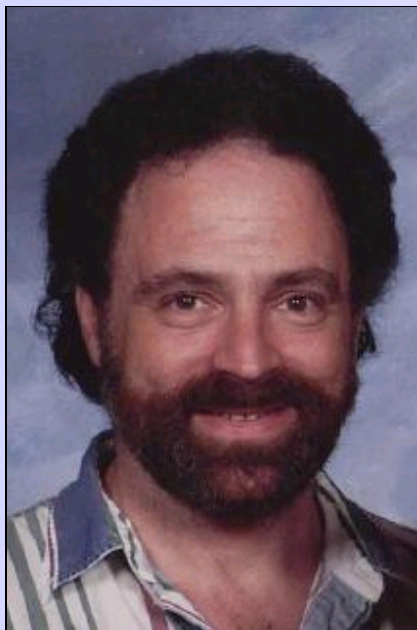


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Research in our lab deals with mechanisms for self-assembly in cells and in mixing problems. In cellular dynamics, we are studying how cells interact with one another and so produce structures ranging from spots and stripes on zebrafish to cerebellar folds to breast cancer morphologies. In mixing problems, we are studying how grains spontaneously separate due to size, density, or electrostatic differences.

Recent Papers:

1. T. Shinbrot & HJ Herrmann, *Stochastic in Motion?* Nature 451 (2008) 773-4
2. C.. Caicedo-Carvajal & T. Shinbrot, *In silico Zebrafish pattern formation?* Developmental Biology 315 (2008) 397-403
3. T. Shinbrot & W. Young, *Why decussate? - Topological constraints on neuronal wiring, development, and regeneration?* Anatomical Record 291 (2008) 1278-92

For more information: <http://sol.rutgers.edu/~shinbrot>



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