



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899

October 25, 2004

To: Whom It May Concern

Subject: Letter of Recommendation for Dr. Joseph E. Reiner

It is with great pleasure I write this recommendation for my friend and colleague Dr. Joseph Reiner. I came to know Joe when he joined Dr. William Phillips and Dr. Kristian Helmerson's Optical Tweezers Research group as a NRC post-doctoral research fellow in 2003. Our research group has been studying biomolecules using optical tweezers and thus it requires cross-functional expertise not only in physical principles and instrumentation but also in biochemical principles and modern chemical techniques.

In our group we prepare giant liposomes and polymersomes via electroformation method. These liposomes and polymersomes are used to create nanotubes using optical tweezers. The nanotubes are stabilized by chemically cross-linking them and then used for study of single molecule transport and as templates for nanofluidic structures.

Joe brought his physics expertise to the group and soon learned chemical and biochemical aspects of the research to become a valuable member of the group. Joe has shown himself to be a quick learner of the new techniques and concepts. Joe is a trusted hard worker and is a colleague who is pleasant to work and collaborate with. I wish Joe every success in his future endeavors and feel confident of his success.

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