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January 15, 2004

Biocomplexity Faculty Search Committee
c/o Professor Rob de Ruyter van Steveninck
Biocomplexity Institute
Indiana University
Swain Hall West 117
Bloomington, IN 47405-7105

RE: Reference Letter for **Hyung-June Woo**

Dear Professor de Ruyter van Steveninck,

Hyung-June Woo received his Ph.D. under my supervision. He graduated in 1997, four years after entering graduate school in Chemistry at Berkeley. He did a fine job with his thesis project, carrying out an elegant theoretical treatment of various phases and properties oil-water-surfactant mixtures. I expected to do even more with Hyung-June, but was unable because I was ill with cancer during his entire last year of graduate studies, and he was then required to return to Korea for national service. My postdoctoral assistant Carlo Carraro helped Hyung-June to some extent, but Hyung-June was clearly the more able of the two.

I have followed Hyung-June's career since that time, and I am impressed with the work he has done. In his postdoctoral work with Song at Iowa, he carried some very nice calculations showing the effects of orientational correlations on freezing. I believe that this work will eventually have significant impact on the way in which protein crystals are made. With Monson, Hyung-June did interesting calculations on the role of disorder on the phase equilibria of fluids in mesoporous materials. Here, the work provides insight into how this class of materials can be used in practice to influence phase equilibria. Finally, with Roux at Cornell, he is learning the technique of biomolecular modeling while also exploring independently basic issues in non-equilibrium statistical mechanics. The former will undoubtedly serve him well for future studies of biomaterials; the latter illustrates Hyung-June's abilities in thinking deeply and independently.

Hyung-June is somewhat bashful. Nevertheless, he expresses himself clearly, he contributes interesting remarks from the floor at scientific meetings, and he writes well.

In sum, Hyung-June is an imaginative, broadly knowledgeable and able hard working young scientist. He deserves the chance to show that he can succeed at leading his own independent research program, and I believe he is ready and capable to succeed at such. I recommend him highly.

Sincerely,

A handwritten signature in black ink, appearing to read "David Chandler".

David Chandler