

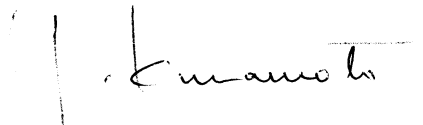
December 10, 2004

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

Dear Sirs,

On behalf of Dr. Dorjsuren Battogtokh, I am herewith sending a letter of recommendation for him in connection of his application for a position at your institute.

Yours sincerely,

  
Yoshiki Kuramoto

December 10, 2004

### **Recommendation for Dr. D. Battogtokh**

I have heard from Dr. Dorjsuren Battogtokh that he is very much interested in applying for a position of Biocomplexity Institute, Indiana University which you are advertising. Because I have known Dr. Battogtokh since the year of 1997 when he joined our research group in Kyoto University, please allow me to say a few words about the applicant's scientific achievements, competence and personality.

Through the two years of his stay in the nonlinear dynamics group in Kyoto headed by myself, Dr. Battogtokh has been one of my best colleagues to work with. We have shared our common interest in statistical dynamics of spatially extended fields or large assemblies composed of active dynamical units. Our discovery of a new type of chemical turbulence with multiscaling properties was published as a couple of papers in *Physical Review Letters* and *Physica A*. These works deal with a certain class of oscillatory reaction-diffusion systems such that, after the elimination of a strongly diffusive component, the system practically reduces to a long-range coupled systems. The numerical part of these works were mostly undertaken by Dr. Battogtokh. Of course, this was backed with a deep physical understanding of the problem.


I know that Dr. Battogtokh collaborated during the period of 1994-1996 with Professor Alexander Mikhailov on a certain reaction-diffusion model with global coupling as well as diffusive coupling, which is aimed at a better understanding of the dynamics of surface catalytic reactions with global feedback. I have heard from Alexander that Dr. Battogtokh's contribution was decisive.

I found that theoretical background of complex dynamics of nonlinear nonequilibrium systems had already been sound prior to his joining our group, and it seems that our collaboration made his understanding of the related fields far deeper than ever and also gave him a chance to develop his numerical skill considerably. Although I do not know well about his very recent activities, I understand that he has developed strong interest in molecular biology through his research experience at Virginia Tech., so that his current interest is perfectly in accord with the project you are now starting, and also he is competent enough to start collaboration with you any time.

I would not say that the style of his work is so smart nor elegant, still I can say for sure that he worked hardest of all my postdoctoral fellows and PhD

students who stayed so far in my group. His personality is warm and open-minded, and he has always been in very good human relationship with the Japanese colleagues and western scientists around us. One possible problem would be that he may not be young enough for the position of concern, but in my opinion, this drawback could well be compensated by a number of other merits he possesses. I also believe that his experience of long-term stay in Japan which is culturally quite different from Western societies and also from his own will add an important asset to his career and have a positive effect on his future activities.

Yours sincerely,



Y. Kuramoto

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