



The Henryk Niewodniczański
INSTITUTE OF NUCLEAR PHYSICS
POLISH ACADEMY OF SCIENCES

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Professor Akira Inaba
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Dear Inaba-san,

I have the great pleasure to express my gratitude for your kind invitation to the RCST. This time not only me, but also my wife and son could experience kindness and hospitality of Japanese people, that we will keep and warmly recall as precious moments.

Also, I would like to thank professor Atsushi Shinohara, the Dean of the Graduate School of Science for his kind acceptance of my candidature for the position of visiting research scholar and additional extension of my research visit.

Nine months (July 2nd 2012 till March 28th 2013) I had spent at the Osaka University were devoted to research program "Structural Thermodynamic Study on Molecule-based Magnets".

Thanks to dedication and hard work of Professor Yuji Miyazaki with whom I once again had worked, we were able to perform relaxation calorimetry (PPMS) experiments for seven different molecule-based samples in temperature range from 0.3 K to 100 K and magnetic fields between 0 and 9 T. During my stay in Osaka scientific paper related to one of these samples have been prepared and then published in 2013. Data registered for other compounds are being analyzed and will soon be published in form of numerous publications.

Apart from the molecular magnetic materials we have also performed several experiments, using DSC, TGA and twin-type adiabatic microcalorimeter, for the 6,6'-dimethyl-2,2'-bipyridyl complex. In case of this compound some of the data were recorded after my departure from Osaka, and already been presented in form of the poster at the the Fifth International Symposium on the New Frontiers of Thermal Studies of Materials in Yokohama, 2013.

I wish to express my gratitude to Professor Miyazaki for his hard work in the laboratory, suggestions and many discussions regarding analysis of recorded experimental data. I would also like to thank students working at the RCST, Koh Yoshida and Nobuaki Azuma for warm welcome, common excursions and help on many occasions.

Once again I find my stay at the RCST the unforgettable scientific experience and precious lesson on theoretical and experimental thermodynamics.

Dear Inaba-san, let me once again thank you for your invitation and efforts which made all, that me and my family had experienced in Osaka, possible.

Yours sincerely

Piotr Zieliński