

KINKEN WAKATE 2016: 13th Materials Science School for Young Scientists, “Workshop for Young Investigators on Functional Molecular Magnetism and Molecular Related Magnetism”

KINKEN WAKATE 2016, 13th Materials Science School for Young Scientists was held on 3rd-4th September, 2016 at IMR, which focused on a subject of molecular magnetism and molecular related functionalities and materials. In the workshop, three world researchers in the field of molecular magnetism and seventeen members of young investigators were invited as tutorial lectures and oral presenters, respectively, as well as poster presenters more than fifty members.

The titled workshop, 13th Materials Science School for Young Scientists (KINKEN WAKATE 2016): Workshop for Young Investigators on Functional Molecular Materials and Molecular Related Magnetism – Rising Star Pre-ICMM@IMR –, was held in the term of 3rd – 4th September, 2016 at the lecture hall in IMR. In the workshop, three world researchers in the field of molecular magnetism, Prof. Joel S. Miller, University of Utah, USA, Prof. Rodolphe Clérac, Centre de Recherche Paul Pascal, France, and Prof. Michel Verdaguer, Université Pierre et Marie Curie, France, were invited as tutorial lecturers. Prof. Miller, who is one of the leaders from an early stage of the development of molecular magnetism, presented own historical work on molecule-based magnets with organic radicals of TCNQ and TCNE. His wonderful examples on organic high T_c magnets and his strategy for the molecular design attracted us.

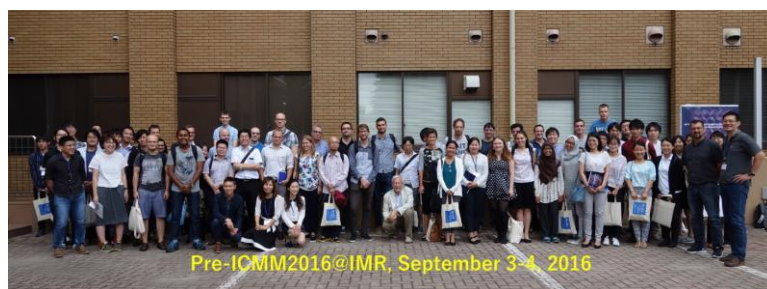
Prof. Clérac, who is one of the leaders in young researchers on molecular magnetism, presented works on magnetic materials associated with electron transfers. He talked about various types of multiple transitions such as spin-crossover with electron transfers and photo-induced spin-crossover. The control of multiple transitions in molecular systems is one of the most attractive themes in the field of molecular science.

Prof. Verdaguer, who is a leader of Prussian blue-type magnets, presented basic science on magnetic properties, in addition to a topic on his own historical works on Prussian blue-type high T_c magnets. He actually demonstrated some experiments at the lecture hall in IMR(!) to answer the following questions: *is oxygen really paramagnetic?* and *does the molecular magnet really be a magnet below T_c ?* Everybody excited his lecture with demonstrations.

In addition to the tutorial lecture, seventeen members of young investigators had oral presentations, and more than fifty members had poster presentations on the first day evening.

In this meeting, we had a lively discussion not only on molecular magnetism, but also on much wider subjects of materials science. Finally, we had total 112 members of participants (65 from overseas + 47 from domestic areas), who joined from 14 countries (USA, France, Australia, Spain, Poland, Canada, Germany, UK, China, Russia, Swiss, Slovakia, Ukraine, and Japan).

On behalf of the organizing committee, I acknowledge the organizer members and Miyasaka group members for help on the management of the symposium, as well as all participants in the symposium.



Keywords: magnetic properties
Hitoshi Miyasaka (Solid-State Metal-Complex Chemistry)
E-mail: miyasaka@imr.tohoku.ac.jp
<http://www.miyasaka-lab.imr.ac.jp/index.html>