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Recent Developments on High Performance Permanent Magnets

Dr. Fang will briefly introduce information about the Research Institute, Division of Functional Materials, Central Iron & Steel Research Institute (CISRI), which is one of the best research institute for research and development of the functional materials in China. The research fields in this institute include permanent magnetic materials, soft magnetic materials, magnetic shielding materials and technique, hydrogen storage alloys, *etc.*

In this talk, recent developments on high performance permanent magnets will be discussed. Dr. Fang will show a fabrication method that rare earth permanent sintered magnets with high energy products and high temperature stability and good mechanical properties could be prepared. We will also discuss the fabrication of some of non-rare-earth magnet, such as Pt-Co permanent magnetic alloy *etc.*

Dr. Fang will also discuss how to apply the magnetic force microscopy (MFM), a powerful tool to reveal magnetic domains, to investigate many kinds of permanent magnets.

Monday, November 22, 2010
136 Jorgensen Hall, 1:30 p.m.
855 North 16th Street, UNL City Campus

Host:
Prof. Sy-Hwang Liou
Department of
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