



Informal Workshop on Rare Earth Permanent Magnets

Magnetic Materials Unit, National Institute for Materials Science

Date: Friday, March 30, 2012

Time: 13:00 - 17:30 (Lab tour: 10:30 - 11:45, Banquet 18:00 - 20:00)

Place: 8th floor medium seminar room, Sengen site, NIMS

http://www.nims.go.jp/eng/nims/office/tsukuba_sengen.html

13:00 Opening Remarks

K. Hono, MMU, NIMS

13:05 Material criticalities in magnetism: three examples

O. Gutfleisch, Institut für Materialwissenschaft, TU Darmstadt

13:45 Microstructure control for higher coercivity in Dy-free Nd-Fe-B permanent magnets

H. Sepehri-Amin, ICYS, NIMS

14:15 Discussion on the relation between the coercivity of NdFeB sintered magnets and the degree of alignment in Nd₂Fe₁₄B grains

Y. Matsuura, Hitachi Metals Ltd.

14:35 Effect of particle size on the magnetic properties of RE-TM Particles

G. C. Hadjipanayis, University of Delaware

15:15 Break

15:30 On the feasibility of Nd₂Fe₁₄B/Fe bulk nanocomposite magnets

S. Hirose, Hitachi Metals Ltd.

15:50 Thick hard magnet films as model systems to study magnetisation reversal in Nd-Fe-B

N. Dempsey, Institut Néel, CNRS, Grenoble

16:30 Coercivity and magnetic domains of Nd-Fe-B thin films

T. Shima, Tohoku Gakuin University

16:55 Weakly exchanged coupled Nd₂Fe₁₄B/Ta/FeCo nanocomposite thin films with high coercivity and maximum energy product

W. B. Cui, MMU, NIMS

17:20 Closing Remarks

J. Sone, Vice President, NIMS

