Exchange Coupled Composite Media for High-density Perpendicular Magnetic Recording Applications

by Ms. Qiu Lei Ju

Date: 6th October 2006 (Friday)
Time: 12:30 to 13:00 pm
Venue: LT 3

Abstract

Due to the increasing demand in high-density recording media, new magnetic thin films with higher magnetic anisotropy are widely studied in order to overcome the superparamagnetic effect. However, the high magnetic anisotropy leads to another key challenge for high-density perpendicular magnetic recording media – writability. Recently, the so-called exchange coupled composite (ECC) media consisting of a hard magnetic layer and a soft magnetic layer show a reduced switching field. This talk will highlight the preparation of exchange coupled composite media films and the characterization of the magnetic and crystallographic properties.

Ms Qiu Lei Ju Speaker

Qiu Leiju received her Bachelor of Science Degree in Physics Department of Nanjing University in 2005. She is currently pursuing her Master’s Degree in the Department of Materials Science and Engineering under the supervision of A/P Ding Jun. Her research work concerns preparation and characterization of magnetic thin films for high density magnetic recording applications.

Dr Xue Jun Min Host

ALL ARE WELCOME!