



Global COE program "Electronic Devices Innovation" Global Seminar

Superconductivity research in Australia - Geophysical survey by SQUID -

Sponsored by Osaka University global COE program "Electronic Devices Innovation" (CEDI)

30 July, 2008, 11:00 – 12:00, Room C419-23

Graduate School of Engineering Science, Osaka University, Toyonaka, Osaka, Japan

Speaker

Dr. Cathy Foley

Research Program Leader, the Commonwealth Scientific and Industrial Research Organisation (CSIRO), Materials Science and Engineering, Australia

President of the Australian Institute of Physics

Abstract

Dr. Cathy Foley is one of the most excellent scientists. She is a leader of the SQUID research group in CSIRO which is the largest research laboratory in Australia. She has developed a high T_C SQUID using a MgO substrate just after high T_C material was found. She worked a lot of superconductive electronics. Recently, she made a flexible gradiometer using a high T_C film on a thin plate for the SQUID and applied it on geophysical survey, because Australia has a lot of mines. Her work is so dynamic like that a SQUID was installed to a helicopter which flew over the mine field. She will review her work on superconductivity and its applications.

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