MRS BULLETIN

October 1995

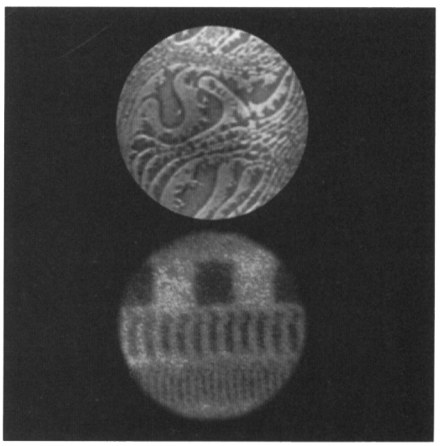
A Publication of the Materials Research Society
Volume XX, Number 10 ISSN: 0883-7694 CODEN: MRSBEA

MAGNETISM ON A MICROSCOPIC SCALE

MRS NEWS

JMR ABSTRACTS

DEPARTMENTS



ON THE COVER: Top: *In situ* determination of exact monolayer coverage for Co on W(110) at 650 K. **Bottom:** Magnetic microscopy using x-ray magnetic circular dichroism. The image is of magnetic domains on a CoPtCr magnetic-recording disk produced by subtracting images taken at the L_3 and L_2 edges of Co using circularly polarized x-rays. The bit pattern rows are 10 μm tall and decrease in width from 10 μm in the upper row through 2 μm to 1μm in the lower row. The magnetization direction of the domains lies along the rows. For more information, see "SPLEEM of Magnetic Surfaces and Layered Structures" by Poppa et al. on page 38 and "X-Ray Magnetic Circular Dichroism Spectroscopy and Microscopy" by Smith and Padmore on page 41.

https://doi.org/10.1557/S0883769400045218 Published online by Cambridge University Press

About the Materials Research Society

The Materials Research Society (MRS), a nonprofit scientific association founded in 1973, promotes interdisciplinary goal-oriented basic research on materials of technological importance. Membership in the Society includes nearly 11,600 scientists, engineers, and research managers from industrial, government, and university research laboratories in the United States and nearly 50 countries.

The Society's interdisciplinary approach differs from that of single-discipline professional societies because it promotes information exchange across the many technical fields touching materials development. MRS sponsors two major international annual meetings encompassing approximately 50 topical symposia, and also sponsors numerous single-topic scientific meetings. The Society recognizes professional and technical excellence, conducts short courses, and fosters technical interaction in local geographic regions through Sections and University Chapters.

MRS participates in the international arena of materials research through the International Union of Materials Research Societies (IUMRS). MRS is a member of the Federation of Materials Societies and is an affiliate of the American Institute of Physics.

MRS publishes symposium proceedings, *MRS Bulletin*, *Journal of Materials Research*, and other publications related to current research activities.

MRS Bulletin (ISSN: 0883-7694) is published 12 times a year by the Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237. Application to mail at second class rates has been approved at Pittsburgh, PA and at additional mailing offices. POSTMASTER: Send address changes to *MRS Bulletin* in care of the Materials Research Society, at the address listed; phone (412) 367-3003; fax (412) 367-4373. Printed in the U.S.A.

Membership in MRS is $75 annually for regular members, $25 for students and retired members. Dues include an allocation of $29 ($17 for students and retirees) to a subscription to *MRS Bulletin*. Individual member subscriptions are for personal use only. Non-member subscription rates are $120 for one calendar year (12 issues) within the U.S.A. and $175 elsewhere. Single copies may be purchased for $16 each. Send subscription orders to Subscription Department, Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237.

MRS Bulletin is included in *Current Contents®/Engineering, Computing, and Technology; Current Contents®/Physical, Chemical, and Earth Sciences*, the *SciSearch®* online database, *Research Alert®*, and the *Materials Science Citation Index™*. Back volumes of *MRS Bulletin* are available in 16mm microfilm, 35mm microfilm, or 105mm microfiche through University Microfilms Inc., 300 North Zeeb Road, Ann Arbor, Michigan 48106.

Materials Research Society
9800 McKnight Road
Pittsburgh, PA 15237-6006
Tel. (412) 367-3003; Fax (412) 367-4373

MRS BULLETIN

Editorial Office • 9800 McKnight Road • Pittsburgh, PA 15237-6006
Tel. (412) 367-3003; fax (412) 367-4373

https://doi.org/10.1557/S0883769400046318 Published online by Cambridge University Press