

the only obvious energy scale is the gap so one would expect that the low temperature regime would be reached a few degrees below the Peierls transition temperature, yet as shown in Fig. 4 the apparent viscosity of the CDW increases strongly as the temperature is lowered. Further, the mechanism for the CDW damping and its temperature dependence remain to be clarified.

Definitive evidence for the sliding CDW would be a direct observation of its velocity. Recent NMR measurements⁹ show a motional narrowing of the NMR lineshape when the CDW is activated, which gives microscopic proof of the motion, but further experiments with the help of the tunnelling microscope could be even more convincing.

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Meetings Issue

The October issue of *Europhysics News* will comprise a calendar of meetings and schools of interests to physicists in Europe starting from January 1987. To guard against errors, organisers are requested to send their notices to the EPS Secretariat by 19 Sept. 1986 at the latest. All entries are included free of charge.

Organisers who believe that their event is eligible for EPS sponsorship should ask for an application form from the Secretariat and return it completed as soon as possible.

The Pennsylvania State University Experimental Surface Physics

The Department of Physics and the Materials Research Laboratory (MRL) are seeking candidates for a tenure-track faculty position in Experimental Surface Physics. Special preference will be given to individuals with experience in or related to scanning tunnelling microscopy techniques. Candidates should have a Ph.D. in Physics, an established record of research accomplishments and expect to set up a research program to complement the active surface physics program which exists in the Department. This appointment will be made jointly between the Department and MRL, allowing the full utilization of existing technologies in both units and the application of results to important materials problems. A desire and aptitude for teaching of undergraduate and graduate students is essential.

Send applications, including a curriculum vitae and names of at least four references, to

Professor Gerald A. Smith, Head, Department of Physics,
Box S, The Pennsylvania State University,
University Park, PA 16802

by October 15, 1986, or until a suitable pool of applicants is identified.

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Computational Scientists Solid State Physics and Surface Science

The Theory and Computational Science Division of the SERC's Daresbury Laboratory has two vacancies for work in computational solid state and surface physics.

The Laboratory is located in rural North Cheshire, and provides major facilities for scientific research by university groups. The present experimental facilities are centred on a 2 GeV Synchrotron Radiation Source, and a 20 MV van de Graaff accelerator. Computing facilities include an AS-7000 and FPS-164 attached processor on site, with access to the Cray 1-S in London, the CDC Cyber-205 in Manchester and a Cray X-MP at the Atlas Centre from early 1987.

These posts are to support the development of theoretical and computational methods for the Collaborative Computational Projects on Band Structure Theory (CCP9) and Surface Science (CCP3). These projects involve large and active groups of university collaborators with whom the successful candidates will interact. The major work of CCP9 over the next few years will be on highly accurate self-consistent methods for calculating the electronic structure of solids; the interests of CCP3 will centre on electronic properties of surfaces and atom-surface interactions. There is other work in progress in the Theory and Computational Science Division on solid state and surface physics, atomic and molecular physics, quantum chemistry, molecular dynamics and computer simulation of solids.

The successful candidates will have recently obtained a Ph.D. or expect to obtain one before taking up the appointment, preferably in theoretical or computational condensed matter physics. An appointment will be made at a salary (under review) between £7701 and £11781 according to age, ability and experience. The post will be available for a fixed term of three years and will be superannuable. There is flexibility in the starting date.

CLOSING DATE: 15 September 1986

Further information may be obtained from

Dr. J.E. Inglesfield (Tel. Warrington (925) 60 31 21);

Dr. B.L. Gyorffy for CCP9 (University of Bristol, (272) 30 30 30 Ext. 3677) or

Professor J.B. Pendry FRS for CCP3 (Imperial College London, (1) 589 51 11 Ext. 6901).

Application forms may be obtained from:

The Personnel Officer, Daresbury Laboratory, Warrington WA4 4AD, Cheshire.

Ref: DL/963: CCP3; DL/964: CCP9 Tel. (925) 60 34 67