

# DIVISIONAL NEWS

known LEED techniques. But the positron can also provide unique information on the electronic and physical structure of bulk materials, as well as defect and other impurity centres, from an analysis of its life time and of the angular correlation between the annihilation photons.

The availability of pion beams has further stimulated the development of devices for vacancy site and defect localization. Pions can get trapped at vacancies like muons or positrons, and their position can be determined from the decay muons, when the channelling effect of the crystal is known.

Among the most recent developments in charged particle applications has been the introduction of heavy ions into the field of materials research. Compared to other types of radiation the special characteristic of heavy ions is high damage density along well-defined tracks, the damage being confined to a channel of about 100 Å diameter. The tracks are extremely straight and their length is unambiguous. This can be used to increase the storage density of magneto-optic films, to create membranes with a single submicron hole, and to produce precision filters. A particularly impressive application is that of microlithography for the fabrication of micro structures.

It is evident that nuclear physics techniques have an important role to play.

## Atomic Physic Division

The new Board of the **Atomic Spectroscopy Section (EGAS)** of the Atomic Physics Division is as follows:

**Chairman:** B. Cagnac, Univ. Pierre et Marie Curie, Paris; and

**Secretary:** A. Dönszelmann, Zeeman Lab., Amsterdam, as published in the June issue of *Europhysics News*.

### Members:

E. Arimondo, University, Pisa  
R.J. Champeau, Aimé Cotton Lab., Orsay  
J. Heldt, University, Gdansk  
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I. Lindgren, Chalmers Univ., Göteborg  
J.D. Silver, Clarendon Lab., Oxford  
A.P. Thorne, Imperial College, London  
R. Winkler, Tech. Univ., Berlin

The **Executive Committee** has confirmed the following Divisional posts:

### Astronomy and Astrophysics Division

**Chairman:** C. Cesarsky  
SEP-CEN Saclay, BP-2  
F-91405 Gif-sur-Yvette  
T. (6) 941 80 00

### Computational Group

**Chairman:** R. Zelazny  
Institute of Nuclear Research  
PL-Swierke k. Otwocka  
T. 79 34 81 - Tx. 813 244 ibjsw PL

### Nuclear Physics Division

**Chairman:** V. Meyer  
Physik-Institut Universität  
Schönberggasse 9  
CH-8001 Zurich  
T. (1) 257 29 27

### Plasma Physics Division

**Vice-chairman:** A. Gibson  
JET Joint Undertaking  
Abingdon OX14 3EA UK  
T. (235) 21 840

### Quantum Electronics Division

**Chairman:** K.L. Kompa  
Max-Planck-Gesellschaft  
Projektgruppe für Laserforschung  
D-8046 Garching bei München  
T. (89) 3299-701

## Astronomy and Astrophysics

The new Board of the **Solar Section** of the Astronomy and Astrophysics Division is as follows:

**Chairman:** P. Maltby, University, Oslo and  
**Secretary:** H. Nussbaumer, ETH, Zurich, as published in the June issue of *Europhysics News*.

### Members:

R.M. Bonnet, Lab. of Stellar and Planetary Physics, Verrières-le-Buisson  
Cl. Chiuderi, Observatory, Florence  
A.D. Fokker, Astronomical Inst., Utrecht  
J. Heyvaerts, Observatory, Meudon  
C. Jordan, University, Oxford  
M. Kuperus, Astronomical Inst., Utrecht  
J.-C. Pecker, Astrophysics Inst., Paris  
I.W. Roxburgh, Queen Mary Coll., London  
J.O. Stenflo, Inst. of Astronomy, Zurich  
C. Zwaan, Astronomical Inst., Utrecht

## CMD Announcement

The Board of the **Condensed Matter Division** has taken the following decisions concerning the next general conferences:

- in 1982 the Conference will take place in Manchester, (UK).

**Chairman:** Prof. V. Heine, Cavendish Laboratory, University of Cambridge, Madingley Road, Cambridge CB3 0HE, UK

- in 1983 the Conference will take place in Lausanne (Switzerland).

**Chairman:** Prof. E. Mooser, Institut de Physique, Université de Lausanne, Dorigny, CH-1015 Lausanne.

These General CMD Conferences will follow the style and form of the 1980 Antwerp General Conference. Both meetings are independent EPS ventures. All decisions concerning the committees, the programmes, which will deal with all aspects of the physics of condensed matter, etc. will be taken by the Chairmen of the Conferences on behalf of the CMD Board. It is intended to provide a European forum for current research in solid state physics and to encourage international cooperation in the field. At each Conference, there will be a series of symposia on recent developments, as well as contributed papers. Participation in the Conferences is open to all.

Future EPS-CMD Conferences will be organised by those institutions or physicists who, after due application, have been selected by the CMD Board. They will be organised as independent European initiatives and not annexed to any national meetings.

Applications to organize the General CMD Conferences for 1984 and 1985 should be sent as soon as possible to the Chairman of the Board:

Prof. J.T. Devreese, University of Antwerp (U.I.A.), Department of Physics, Universiteitsplein 1, B-2610 Wilrijk.

**The EPS Secretariat is closed for holidays from 24 Dec. - 4 Jan. Happy New Year!**

## EPS Divisions, Sections and Group

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Solar Section

Atomic Physics Division

Atomic Spectroscopy Section  
Chemical Physics  
Electronic and Atomic Collisions  
Molecular Physics

Computational Physics Group

Condensed Matter Division

Low Temperature Section

Macromolecular Physics

Magnetism

Metals

Semiconductors and Insulators

Surfaces and Interfaces

High Energy & Particle Physics Division

Nuclear Physics Division

Plasma Physics Division

Quantum Electronics Division

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