

# EC Human Capital and Mobility

## CALL FOR PROPOSALS



# Europhysics Notes

### Research Fellowships

Young scientists (primarily post-docs) seeking research fellowships from institutes pre-selected by the EC Human Capital and Mobility programme as having more than 100 KECU available must submit proposals by **29 September 1992**. The institutes (which number about 27 in physics) must send final choices to the Commission of the EC by 15 October 1992 for consideration in the first selection round.

### Large-Scale Facilities

European scientists wishing to be included in a joint proposal with a pre-selected large-scale facility (LSF) are advised to apply to their chosen LSF by **29 September 1992**. The LSF's must submit proposals jointly with potential users to the Commission of the EC by 15 October 1992. Of the 25 pre-selected LSF's, the following are physics-based:

*Neutrons*: \* CEN Grenoble, F; Lab. Leon Brillouin, Saclay, F; Hahn-Meitner Inst., Berlin, G; RAL, Chilton, UK. *Nuclear & particle physics*: DAPHNE, INFN Frascati, I; \* GSI, Darmstadt, G. *X-rays*: Sincrotrone Trieste, I. *Lasers*: FORTH, Heraklion, Crete; CEA, Limeil, F; Appl. Optics Lab., Palaiseau, F; \* MPI Garching, G. *Computing*: Edinburgh Parallel Computing Centre, UK; Cataluna Supercomputer Centre, E. *Astronomy*: FOM, Dwingeloo, NL. *Low temperatures*: Physics Inst., U. Bayreuth, G. *High gravity*: \* CORIOLIS, Grenoble, F.

Roughly 95+ % complete lists of pre-selected institutes and LSF's are published in the *Official Journal of the EC* C212 (18 Aug. 1992) 12-21. The LSF indicated with an asterisk (\*) were for technical reasons not announced in the *Official Journal*.

For what it is worth in view of the incredibly compressed timescales, detailed updated lists are available by e-mail (and **only** e-mail) if you send a message with your e-mail address to the EPS Geneva Secretariat (e-mail: epnews @ cernvm.cern.ch; fax: +41-22-793 11 30).

### ● Central Europe's First Supercomputer

The Institute of Physics of the Czechoslovak Academy of Sciences, Prague, will take delivery next month of the first vector supercomputer in east and central Europe. It is a Cray YMP-EL machine (a "baby Cray") configured as a signal processor with a 5.3 ns clock speed and valued at 0.58 M\$US. Some 20% of machine time will be available to eight other institutes and there is a contract with universities to provide access. Hungary and Poland have yet to decide upon offers for similar machines.

Dr. J. Nadrcchal, the Director for Central Services in the Institute of Physics and responsible for computing facilities, reports that delivery was delayed by nearly one year as it turned out that a COCOM licence was needed to connect the machine to the networks in which the Czechoslovak Academy of Sciences had invested heavily. This illustrates continuing US sensitivity to supercomputer access. But the licence issued to Prague is somewhat ridiculous because in restricting Internet connections to authorised users it ignores the fact that access can be gained via other machines.

### ● En Route to SGML-Capped Word-Processing

To ensure that all authors are treated equally when submitting manuscripts electronically for automatic processing it is necessary to define the structure of the document. The Standardized General Mark-Up Language (SGML) is the most generally accepted software standard for doing this. A great advantage of an article with SGML tags is that it can be "repackaged" (e.g., abstracts can be automatically downloaded into databases). However, SGML requires a standard Document Type Definition (DTD) table specifying the various elements of a text.

The EPS Publications Committee's Working Group on Electronic Publishing has based its development of a DTD for physics on proposing modifications to the article and maths parts of the American Association of Publisher's (AAP) Electronic Manuscript Standard (EMS) for physics articles. At an EPS workshop on electronic publishing held last October, the EPS group agreed to a joint development of a DTD for physics with the European Working Group on SGML (EWS), the other main European group active in the field. EWS has also adopted EMS as the basic DTD and has published a modified DTD for the header parts of physics articles called MAJOUR.

In the meantime, AAP has submitted EMS, together with the EPS group's suggested modifications, to the International Standards Organisation (ISO) for consideration as a world-wide standard. ISO accepted the proposal so EMS is now being commented on by representatives of member states. The plan is to appoint a working group chaired by Eric van Herwijnen, who also belongs to the EPS group, that will fuse comments into a draft of a definitive ISO DTD; ISO staff will make proposals for maths and tables parts.

A first issue of an ISO standard for a physics DTD is thus expected within two years.

## LEOPOLD-FRANZENS-UNIVERSITÄT INNSBRUCK PROFESSOR FÜR EXPERIMENTALPHYSIK

Am Institut für Experimentalphysik der Naturwissenschaftlichen Fakultät der Leopold-Franzens-Universität Innsbruck ist die Planstelle eines/einer Ordentlichen Universitätsprofessors/Universitätsprofessorin für Experimentalphysik wieder zu besetzen.

Der Bewerber/die Bewerberin soll hervorragende wissenschaftliche Leistungen in der Experimentalphysik, pädagogische Eignung und Habilitation oder eine gleichzeitige wissenschaftliche Qualifikation aufweisen. Eine angemessene Beteiligung an den Pflichtlehrveranstaltungen wird erwartet. Im Fachbereich der Physik werden derzeit wissenschaftliche Arbeiten vorwiegend auf folgenden Gebieten durchgeführt: Quantenoptik, Atom/Clusterphysik und Festkörperphysik. Von dem/der Bewerber/in wird eine Bereitschaft zur Zusammenarbeit mit diesen Arbeitsgebieten und eine fachliche Einbindung in den im Aufbau befindlichen Schwerpunkt "Quantensysteme" erwartet.

Bewerbungen mit den üblichen Unterlagen einschliesslich von Sonderdrucken von 5 der wichtigsten Publikationen werden bis spätestens **15. November 1992** an das

**Dekanat der Naturwissenschaftlichen Fakultät der Universität Innsbruck,  
A-6020 Innsbruck, Innrain 52, erbeten.**

Die Leopold-Franzens-Universität Innsbruck strebt eine Erhöhung des Frauenanteils am wissenschaftlichen Personal an und fordert deshalb qualifizierte Frauen nachdrücklich auf, sich zu bewerben.

O. Univ.-Prof. Dr. Michael KUHN  
Dekan

## Am Kiepenheuer-Institut für Sonnenphysik in Freiburg

ist ab 1. Juli 1993 zu besetzen die Stelle des

### Direktors und Professors (als Nachfolger von Prof. Dr. E.H. Schröter)

Das Forschungsgebiet des Instituts (35 Mitarbeiter, davon 17 Wissenschaftler) umfasst experimentelle und theoretische Sonnenphysik. Das Institut ist federführend am Betrieb der deutschen Sonnentelkope im Observatorio del Teide (Teneriffa) beteiligt.

Vom Bewerber wird erwartet eine Habilitation bzw. habilitationsadäquate Leistungen, eine mehrjährige Forschungstätigkeit auf dem Gebiet der Sonnenphysik mit entsprechenden Publikationen sowie die Bereitschaft, astrophysikalische Lehrveranstaltungen an der Universität Freiburg abzuhalten.

Bewerbungen mit einem Lebenslauf und den sonst üblichen Unterlagen, insbesondere einer Publikationsliste werden bis zum 1. Dezember 1992 erbeten an:

Ministerium für Wissenschaft und  
Forschung Baden-Württemberg  
z. H. Herrn Regierungsdirektor Gerber  
Referat II/2 / Königstrasse 46 — 7000 Stuttgart 1