

administrative support for the Monitoring Committee that will handle and process applications; many others have indicated that they will help in disseminating information and application forms later this year. Members have commented that a five-year renewal period is inappropriate as many physicists have been awarded higher degrees. It was therefore suggested that the group should consider extending the period.

Mobility: The grant from The Soros Foundations is covering two students in the first year of the mobility scheme, which has a total of 101 students participating (76 with EC ERASMUS grants and 11 with TEMPUS grants). Some 222 applications have been received for 1994/5: 139 will apply for ERASMUS grants and 62 for TEMPUS or EPS/Soros grants. Some 17 of the 30 EPS/Soros grants to be distributed this year for 1994/5 have already been assigned.



Europhysics Notes

LHC Vote Suspended

The proposal before the 100th Session of the CERN Council on 29 June was the decision to build the LHC collider with Member State contributions as a modification of the basic programme, with "proper indexation" to allow commissioning by 2002 or 2004 (depending on the level of non-Member State contributions). Seventeen of the nineteen States voted "yes" with five delegations saying they would ask their governments for confirmation in moves designed to make it easier for the UK and Germany to agree. H. Curien, the President of Council, suspended the Session until 30 September at the latest pending the votes by the UK and Germany who wish to change the way CERN's cash



R. Sabela, the Czech Republic's Deputy Minister for Industry and Trade, with C. Llewellyn-Smith (on the right) at the opening of the Czech Republic's first industrial exhibition at CERN on 7 June.

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**INSTITUTE OF PHYSICS AND ASTRONOMY
AARHUS UNIVERSITY, DENMARK**

Professor in Theoretical Physics

Applications are invited for a permanent position as full professor in theoretical physics at the Institute of Physics and Astronomy. The position is open from August 1995 and the annual salary is approximately DDK 460.000, including contribution for retirement.

The Institute is seeking an internationally recognized physicist to lead and conduct research in and teaching of theoretical physics. It is required that the candidate has made important contributions to his/her own fields of research, and that he/she has demonstrated a broad interest for and insight into physics. The invitation aims at a general strengthening of theoretical physics at the Institute which at the moment covers atomic physics, condensed matter and statistical physics, nuclear and particle physics, and astrophysics. A position as a full professor of theoretical solid state physics has recently been filled. The Institute hosts the new Aarhus Center for Advanced Physics specializing in atomic and semiconductor physics, and co-hosts the Theoretical Astrophysics Center as well as the Center for Atomic-scale Materials Physics (all centers are funded by the Danish Foundation for Basic Research).

The professor is expected to conduct teaching at the pre- and post-graduate level.

Applications should include a *curriculum vitae* giving evidence on which the evaluation of the applicant's scientific and teaching qualifications can be based, a complete list of publications together with three copies of each of those publications which the applicant selects as the most relevant for the application. Other supportive material should also be submitted in six copies.

The selection committee may include further material from the list of publications in its evaluation of the applicant. In that case applicant must, upon request, submit the material to the selection committee.

The selection committee's written evaluation of the applicants will be sent in full to all applicants.

Applications should be addressed to The Faculty of Sciences, University of Aarhus, Ny Munkegade, Building 521, DK-8000 Aarhus C, and marked 211/5 - 6. The deadline for the receipt of all application material is **November 15, 1994**, at twelve o'clock.

For further information on salary, research and teaching duties, staff, laboratory and other facilities, please contact: The Chairman of the Institute of Physics and Astronomy, Dr. Jørgen Bøttiger.
Phone: +45 89 42 28 99, Fax: +45 86 12 07 40.

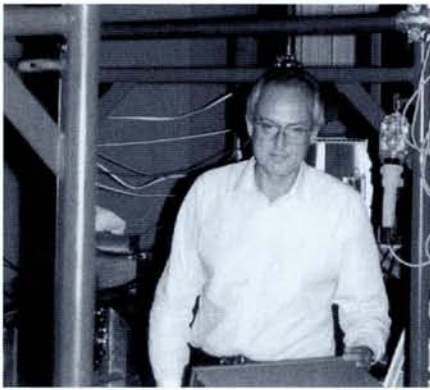
budget is indexed for inflation, reportedly to extract larger contributions from the host states. One compromise may be to agree on a cash limit for three years followed by a review. Germany effectively sought a veto in setting the annual cost indexation through an increase in the percentage (currently 55 %) of MS financial contributions needed to vote in an annual adjustment.

C. Llewellyn-Smith, the Director General, emphasised that one cannot keep developing for ever and that to avoid a further extension to the two-year hole in Europe's high-energy programme, approval is needed now for commissioning by 2002. Extending to 2004 would have little effect on the budget as decisions for major capital items (*e.g.*, dipole magnets) do not need to be taken until the end of 1997 (this is reflected by a fairly significant increase in LHC expenditure in 1998).

Current LHC planning calls for a two-year shut down of LEP, and closure of the West Area (but not the neutrino experiments) at the end of 1996 and of the LEAR ring at the end of 1998 (Isolde would probably be kept running). On the personnel side, CERN would like to see the decrease in staff numbers, which accelerates in a few years time, being offset by new staff to bring the staff level to about 2300 in 2005 compared with today's 3000. Concerning LHC detectors, technical proposals for the two large, complementary general-purpose detectors (ATLAS and CMS; 350 MSFR first stage; 420 MSFR full detector; 220 MSFR CERN contribution for each up to 2005) and for a general-purpose heavy-ion experiment (ALICE; 350 MSFR) are being prepared, and a B-physics experiment has been agreed in principle.

VIRGO Agreement Signed

Representatives of the French CNRS and the Italian INFN signed, on 27 June in Pisa, the agreement for the construction of the VIRGO laser interferometer for the detection of low-frequency gravitational waves. Adalberto Giazotto, the Project Leader, indicates that procedure to acquire the site has been launched with the view to starting to build the Phase 1 installations (the interferometer's central test facility) next year. Local government representatives are involved in order to smooth out any concern about the environmental aspects of the interferometer's two 3-km long vacuum tubes that will be built on



Adalberto Giazotto, the VIRGO Project leader, standing in front of the vacuum vessel housing a first-generation seismic attenuator for VIRGO's mirror suspension system.

the surface (to reduce costs). The mechanical aspects, e.g., the suspension system for mirrors remain a crucial aspect as low-frequency performance is limited by thermal noise. Hence, reports that the 45 % CNRS contribution involving largely the laser system represents the technically most challenging, and therefore interesting, aspect are largely unfounded.

National Societies

The Institute of Physics in the UK has signed a contract to acquire the leasehold of premises at 79 Portland Sq., London, that are better suited for a society of 14 000 members than the present headquarters at 47 Belgrave Sq. The plan is to move the staff of about 40 to the new base in September once the purchase is completed. This is probably independent of whether or not planning permission is received to build an auditorium for 200 behind the building.

The German Physical Society has appointed Volker Haeselbarth, formerly a manager at Siemens, as Acting Manager. He will formally take over from Wolfgang Heinicke as the Executive Secretary in the autumn. Heinicke has moved from the Society's headquarters at the Physikzentrum Bad Honnef to Berlin to run the renovated Magns-Haus that became available to the Society following Germany's reunification.

Research Networking

The proceedings of the NATO Advanced Networking Workshop *Research Networking in Central Europe* (Budapest, 21-21 October 1993) published by the Réseaux Associés pour la Recherche Européenne is now available (contact Anne Cozanet, cozanet@rare.nl; fax: +31-20-639 32 89). The workshop concluded that cooperation in science through the increased sharing of information can only be achieved via telecommunications networks designed to meet the special needs of the research community. It recommended specific actions (training workshops, etc.), greater involvement by central and eastern European countries in international network organizations and the creation of a connectivity planning group. NATO has established Networking Infrastructure Grants to improve access to networks. Applications forms are available from the NATO Scientific Affairs Division, B-1110 Brussels (fax: +31-2-728 42 32).

Physica Scripta

An international journal for
experimental and theoretical physics

Vol. T51 1994

Proceedings of the

25th EGAS Conference of the European Group for Atomic Spectroscopy

Caen, France; 13-16 July 1993

Editors: D. Lecler and J. Margerie

Some 264 physicists from 25 different countries presented 216 contributions (36 oral, 180 posters) at the 25th EGAS. There were also 11 invited lectures, and one of the scientific sessions was devoted to Professor Bengt Edlén who died in February 1993.

The proceedings contain nine of the invited lectures covering trapped ions, correlation effects, results from heavy-ion storage rings, collisions of charged ions with atoms, solar and stellar spectroscopy, quantum non-demolition, the application of diode lasers, cavity quantum electrodynamics, and laser cooling. A homage to Professor Edlén by W. Persson and I. Martinson and a review by D. Stacey of the first 25 years of EGAS history are included.

84 pages reviewing the state-of-the-art in atomic spectroscopy.

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Proceedings of the 4th week of the Spring College on Plasma Physics Wave-Particle Interactions and Energization in Plasmas

Trieste, Italy, 7-11 June 1993

Editors: P.K. Shukla, U. de Angelis, R. Bingham, L. Stenflo

Comprising the invited talks presented at the workshop held during the biennial Spring College on Plasma Physics that aims to diffuse understanding in modern plasma physics. The topics fall within one of the most advanced areas of plasma physics, where there is a need to understand turbulent as well as coherent plasma-wave phenomena.

Topics were centered on a unified theme covering quasilinear theory in the context of weak turbulence, wave-wave-interactions, magnetic field reconnection, and coherent nonlinear structures. Wave-particle interactions were highlighted by wave generation, wave collapse, distortion of distribution functions, and charged particle acceleration.

128 pages providing a valuable resource for all plasma physicists.

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