

People and things

Meetings

A Summer Study to be held in Snowmass, Colorado, from 23 June to 11 July will allow the US particle physics community to critically evaluate all aspects of the proposed US Superconducting Super Collider (SSC) in the light of conceptual design, progress in accelerator technology, new developments in collider physics, and innovations in instrumentation. Further information from Joanne Day, Argonne National Laboratory, Building 362, Argonne, IL 60439, USA.

Organized jointly by the European Committee for Future Accelerators (ECFA) and the Rheinisch-Westfälische Technische Hochschule in Aachen, a 'LEP 200' Workshop is being arranged from 29 September to 1 October to work out the physics objectives and experimental requirements for running LEP at around 100 GeV per beam. Further information from Workshop LEP 200, III. Physikalisches Institut RWTH Aachen, Physikzentrum, Sommerfeldstrasse, D-5100 Aachen, West Germany.

A four-day practical course on microelectronics is being hosted by CERN and the International School of Geneva from 18-21

UK Under-Secretary for Education and Science George Walden (right) confers with Bill Mitchell, Chairman of the UK Science and Engineering Research Council, at the CERN Council meeting where the UK's resolution to set up a CERN Review Group was adopted.

(Photo CERN 311.2. 86)

CERN Review Group

In the context of continued limitations in the amount of funding available for non-defence research in the UK, last year the 'Kendrew Committee' published its conclusions on Britain's future involvement in CERN.

After generally praising CERN's work and achievements, the report ended abruptly with the view that Britain's continued membership of CERN after 1989 was only possible at significantly lower cost (see November 1985 issue, page 375).

The UK government felt compelled to act, however under the CERN Convention, which has the status of a treaty, the fourteen Member States are not free to fix their own contributions. Further action can come only from the governing body of CERN, its Council. Thus after con-

tacting other Member States the UK asked for a special Council session to be convened in February.

The UK proposed that a Review Group, composed of about half a dozen eminent people, should be set up to look at the way CERN runs and into the possible consequences of applying a range of alternative measures. This Group would complete its work this year and report back to CERN Council.

In the traditional CERN spirit of conciliation between Member States, a consensus resolution was unanimously adopted by the Council. Many delegates welcomed the setting up of such a review, and stressed that its aim should be to ensure the continued vitality of the Organization. However they warned against the dangers of trying to achieve 'unrealistic' savings which would prejudice CERN's future.





▲ Superconducting correction magnets for the HERA electron-proton collider at DESY will be built by Dutch industry. At the signing of the official agreement, Director of the Research Organization Division of the Dutch Ministry of Education and Science C.H. van Alderwegen (right) shakes hands with DESY Director Volker Soergel. Between them is General Director of Industry and Regional Policy of the Dutch Ministry of

Economic Affairs H. Leliveld, while Bjorn Wiik, project leader of the HERA superconducting proton ring, looks on.

(Photo DESY)

1966 — first steps towards building the Intersecting Storage Rings. ▼



June. It is aimed at teachers wishing to update their knowledge of this rapidly advancing field. Further details from P. J. Hayman, Department of Physics, University of Liverpool, Oxford Street, PO Box 147, Liverpool L69 3BX, UK.

Twenty years ago

Bulldozers moved in to start excavations for the Intersecting Storage Rings at CERN. At the Proton Synchrotron the new idea of slow cycling synchrotrons in injection systems was under study as part of the machine improvement programme. Links between CERN and Serpukhov were being strengthened with a view to obtain access to the Soviet 76 GeV proton synchrotron, then at an advanced stage of construction, for European experimentalists.

In the US the Atomic Energy Commission was pondering a site report from the National Academy of Sciences for what was then known as the 200 GeV accelerator. At the same time, it had asked the Berkeley design team to go back to the drawing board to see if it could chip costs down from the estimate of \$ 348 million. The AEC did liberate money for the start of design work on a 'meson factory' at Los Alamos where an 800 MeV, 1 mA proton linac was already mooted.



KERNFYSISCH VERSNELLER INSTITUUT
GRONINGEN
THE NETHERLANDS

STAFF POSITION in EXPERIMENTAL NUCLEAR PHYSICS

The KVI wishes to appoint a young experimental nuclear physicist on a tenured staff position. The appointment will be with FOM, the Netherlands Foundation for Fundamental Research on Matter.

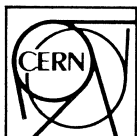
The Kernfysisch Versneller Instituut is a national research institute in nuclear physics, jointly sponsored by the University of Groningen and by FOM. It has a broad experimental and theoretical research program on nuclear structure and heavy-ion physics.

At present the main facility of the KVI is a K=160 MeV AVF-cyclotron for the acceleration of light and heavy ions. A large variety of detectors such as a magnetic spectrograph and various systems for the detection of light and heavy ions, electrons and -radiation is available. Recently funds have been made available for the design and construction of a K=600 MeV superconducting cyclotron for light and heavy ions. The machine which will be built in Orsay in close collaboration with the Institut de Physique Nucleaire, will replace the present K=160 MeV cyclotron at the KVI in 1991.

The successful candidate should be interested in the research that can be performed with the existing and future facility, and should also be willing to take on responsibilities for new instrumental developments. Several years of post-doctoral experience are required.

Applicants for the above-mentioned position are requested to submit a curriculum vitae, list of publications and the names and addresses of three references, as early as possible but not later than May 15, 1986, to:

Prof. Dr. R. H. Siemssen
Kernfysisch Versneller Instituut
Zernikelaan 25
9747 AA GRONINGEN
The Netherlands



European Laboratory for Particle Physics
Laboratoire Européen pour la Physique des Particules

European Organization for Nuclear Research
Organisation Européenne pour la Recherche Nucléaire

CERN, the European Organization for Nuclear Research, located near Geneva, Switzerland, has a vacancy for a

Senior scientific information officer

Candidates should have a PhD in Physics or in a related field, a completed higher education in librarianship and experience in the management of a library or information centre. They should be familiar with modern library techniques. Very good knowledge of English and French is required.

The incumbent will take an active part in all questions related to scientific information, library services and scientific publications of CERN. He will maintain contact with relevant professional bodies and other libraries and information centres working in the same field.

For application forms, please write to:

Head of Personnel,
CERN,
CH-1211 Geneva 23,
Switzerland,

quoting the reference TH-SIS.

Accelerator Physicists

The MIT-Bates Laboratory is seeking to fill two positions in the accelerator systems division, including the position of **Accelerator Systems Division Head**. The Bates facility operates an electron linear accelerator-recirculator system which produces high current beams with maximum energy of 750 MeV and 1% duty factor. The facility serves the national community in basic nuclear physics research with intermediate energy electromagnetic probes. Projects to increase the maximum beam energy to 1 GeV and to develop a polarized beam capability are in progress. A proposal for construction of a pulse stretcher ring, the primary goal being an increase in duty factor to nearly 100%, has been submitted to the Department of Energy.

For both positions, the Ph.D. degree in Physics or Engineering and a command of beam optics, rf systems and control instrumentation are desirable. The successful candidates will be expected to take part in development of the accelerator system, in the establishment of operational protocols, and in advanced accelerator R & D. The head of accelerator systems will assume overall responsibility for operations and is expected to participate actively in planning and development.

These positions offer qualified candidates the opportunity to progress along M.I.T.'s research ladder with associated benefits and privileges. Senior candidates may be eligible for an academic appointment with the M.I.T. Physics Department. Please submit a current curriculum vitae and a list of publications along with three references to: Mr. Richard Adams, Laboratory for Nuclear Science, M.I.T. 26-505, Cambridge, MA, 02139, U.S.A.

MIT is an Affirmative Action/
Equal Opportunity Employer.
Applications from minorities
and women are encouraged.

MIT

UNIVERSITY OF TORONTO Department of Physics

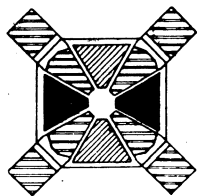
The Department of Physics plans to make several tenure-stream appointments in the next few years, of which at least one will be in **Experimental High Energy Physics** and another in **Experimental Laser Physics**.

In anticipation, the Department invites applications for each of these positions from qualified candidates for NSERC University Research Fellowships, both of which could begin July 1, 1987. NSERC University Research Fellows must be Canadian citizens or permanent residents. Fellows carry out research, supervise graduate students and have teaching loads comparable to starting assistant professors.

Successful candidates may in special circumstances be considered directly for a tenure-stream position as assistant professor.

Applications, consisting of a CV, list of publications, summary of research interests, a detailed research proposal, and the names of three (3) referees should be sent **before July 1, 1986** to:

Professor R. E. Azuma,
Chairman,
Department of Physics,
University of Toronto,
Toronto, Ontario,
Canada M5S 1A7.



INDIANA UNIVERSITY
CYCLOTRON FACILITY (IUCF)

ACCELERATOR SCIENTIST

Applications are invited for an experienced Accelerator Scientist to initiate, supervise, and participate in research and development for state-of-the-art accelerator and research instrumentation for intermediate energy nuclear physics. The position also offers the possibility of participating in the development of graduate level courses in the area of accelerator physics and instrumentation to be taught in the Physics Department of Indiana University. A Ph.D. in Physics or Accelerator Physics and considerable experience in the design and construction of accelerators and/or research instrumentation is required.

IUCF presently consists of a complex of two alternate 600-keV ion source terminals followed in sequence by two separated-sector cyclotrons which accelerate light ions to a maximum energy of 200 q²/A MeV. In addition, the laboratory is now engaged in a major facility upgrade consisting of the construction of a storage ring which will have the capability both of synchrotron acceleration and electron cooling of the stored beams. There will also be an active program in design and construction of research instrumentation for research with the existing accelerators and with the cooled beams, as well as in planning for future accelerator upgrades.

This is a continuing full-time position funded by the office of the Dean of Research and Graduate Development, Indiana University. The salary will be competitive and is dependent upon training and experience. For a truly exceptional candidate, the possibility of an academic faculty appointment may also be explored.

Send resume and names of three references by June 30, 1986 to:

P. P. Singh, Co-Director
Indiana University Cyclotron Facility
2401 Milo B. Sampson Lane
Bloomington, IN 47405, USA (812) 335-9365

Indiana University is an Affirmative Action/Equal Opportunity Employer.

The Max-Planck-Institut für Physik und Astrophysik, Munich, is offering the position for a

Ph. D. Physicist with experience in low temperature physics

We are looking for an experimental physicist with experience in low temperature physics to participate in the development of solar neutrino and dark matter detectors.

The appointment will be for three years with a possibility of extension.

Applications (including curriculum vitae, list of publications and the names of two referees) should be sent as soon as possible to

Prof. N. Schmitz
Max-Planck-Institut
für Physik und Astrophysik
Föhringer Ring 6
D - 8000 München 40
Federal Rep. of Germany

HÔTE et HÔTESSE TUNON

De multiples débouchés:

Tourisme, Hôtellerie, Salons,
Relations publiques,
Transports, etc.

- Aide au placement
- Initiation à l'informatique
- Stages pratiques durant la scolarité
- Transfert entre nos 23 écoles et stages internationaux en cours d'année

**ETUDES EN
FLORIDE** possibilité
de stages rémunérés dans
le cadre de l'école
d'Orlando

**Toutes
les professions de l'accueil
dans une école**



**ECOLE INTERNATIONALE
TUNON**

FONDEE EN 1964
ENSEIGNEMENT PRIVE

2, rue Vallin 1201 Genève Tél. (022) 328320

Bon d'information

Veuillez me faire parvenir:

☐ votre documentation complète ☐ me communiquer
par téléphone les dates des **conférences d'informations**
et des **opérations portes ouvertes**.

Nom: _____ Prénom: _____
Rue, N° _____ Age: _____
NPA, localité: _____ N° tél: _____

23 ECOLES DANS LE MONDE: PARIS · BORDEAUX · CAEN · LILLE · LYON · MARSEILLE
MONTPELLIER · NANCY · NANTES · REIMS · STRASBOURG · TOULOUSE · TOURS · ARNHEM · BARCELONE
BRUXELLES · FRANCFORT · GENEVE · LA HAYE · LONDRES · MADRID · MONACO · ORLANDO

EUROPEAN SYNCHROTRON RADIATION FACILITY AT GRENOBLE

Accelerator scientists and engineers

The ESRF is a state-of-the-art synchrotron radiation source that will be built in Grenoble (France). The facility is dedicated to covering the needs of the European scientific community in the X-ray part of the electromagnetic spectrum.

The accelerator part consists in:

- a 800 meter circumference storage ring with a large number of straight sections to accommodate wiggler and undulator sources,
- a fast cycling synchrotron used as an injector for the storage ring.

The team that will be in charge of final design and construction of the ESRF is being appointed. Several employment opportunities at various levels are available immediately.

Successful candidates must have adequate knowledge of particle accelerator physics in general, relevant experience in hardware design and technology associated with the components of this type of machines.

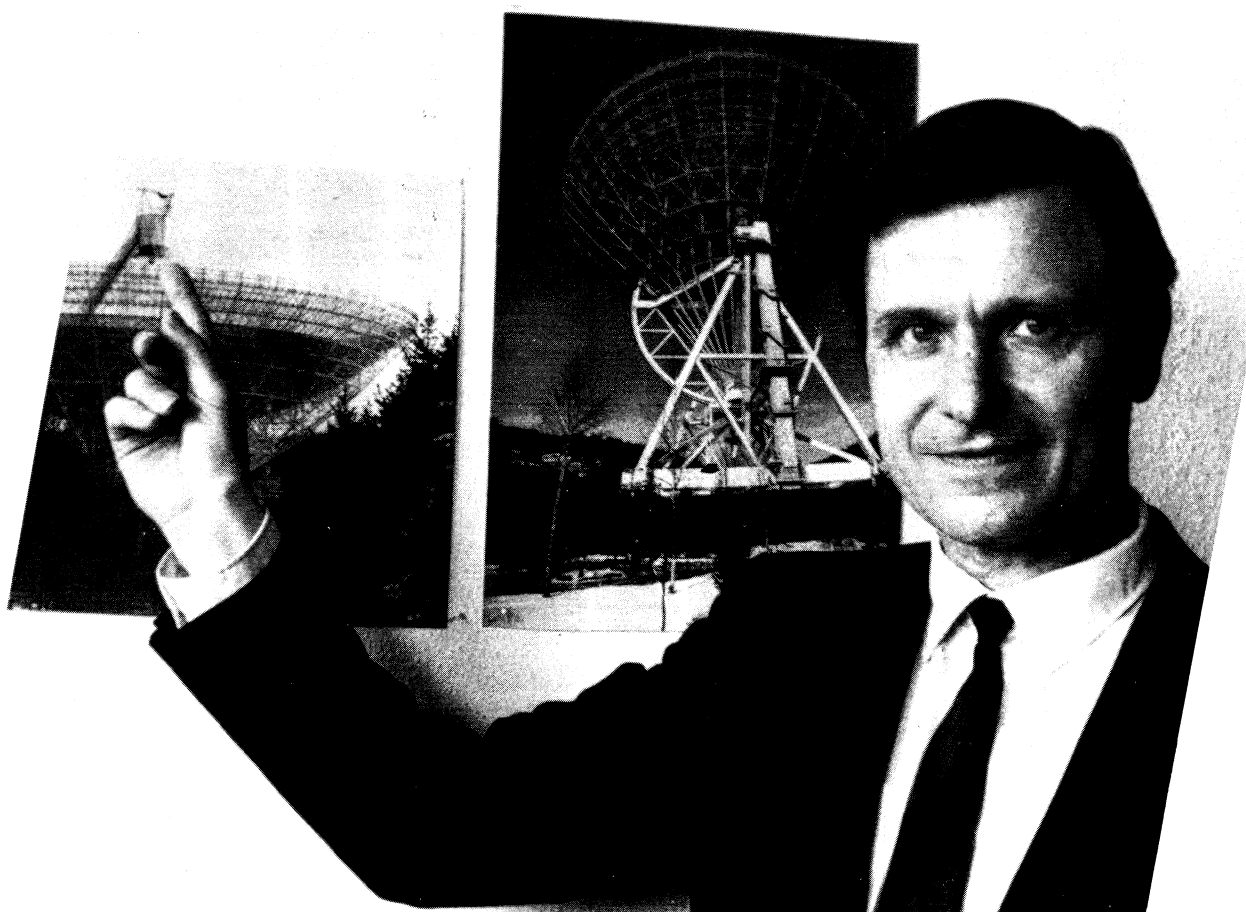
Initial salary will depend upon qualifications.

Curriculum vitae, list of publications, resume of professional experience, brief description of field of interest, date of availability and names of three referees should be forwarded, before May 15, to:

The Director General
of European Synchrotron
Radiation Facility
BP 220
F-38043 Grenoble (France)

High Technology needs Superconductors

- in fusion research**
- in medical diagnosis**
- in radioastronomy**



Dr. Karl-Jürgen Best, Vacuumschmelze

The biggest radiotelescope is located at Effelsberg, Eifel, W. Germany. One of its highly sensitive receivers is a MASER – a quantum mechanical amplifier. For its operation a strong and homogeneous magnetic field is necessary. It is provided by superconducting coils.

High-energy magnetic fields produced by superconductors VACRYFLUX® also help achieve top results in other disciplines, i.e. in fusion research or in nuclear spin tomography, which enables high resolution diagnosis without X-ray examination.

® Registered trademark of VACUUMSCHMELZE GMBH

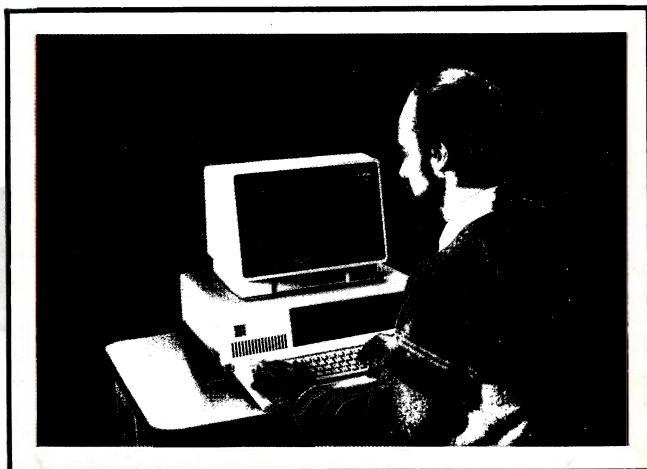
VAC
VACUUMSCHMELZE

VACUUMSCHMELZE GMBH

Grüner Weg 37, D-6450 Hanau 1 · Telefon: (061 81) 362-1 · Telefax: (061 81) 362 645 · Telex: 4 184 863
Rhenaniastr. 9/17, D-1000 Berlin 20 · Tel.: (030) 3320 051 · Telefax: (030) 3320 051 App.04 · Tx.: 182 815

Programmable High Voltage

**...to simplify your setup,
stabilize your system,
and eliminate the margin
for error**



Large Systems

Series 1440—The most economical, yet the most rugged programmable multichannel supply available.

- Up to 256 HV outputs/mainframe
- All outputs independently controllable
- ± 2.5 kV, 2.5 mA/channel
- RS232 or CAMAC (IEEE 583) control
- Industrial grade—field proven reliability
- Utilizes 16-channel plug-in cards

Medium Systems

Series HV4032A—Offers four different supplies which may be used simultaneously and controlled in the same mainframe. Offers exclusive HV protection features and convenient controls.

- Up to 32 HV outputs/mainframe
- All outputs independently controllable
- ± 3.3 kV, 2.5 mA/channel
- ± 7 kV, 0.5 mA with programmable current limit/crowbar
- RS232 or CAMAC (IEEE 583) control
- Utilizes 2 and 4-channel plug-in pods

Small Systems

Model 2415—Designed for use in CAMAC-Standard (IEEE 583) modular systems. Allows convenient remote control of your entire setup.

- One HV output module
- CAMAC-programmable control or manual operation
- Up to ± 7 kV at 1 mA
- Up to ± 3.5 kV at 2.5 mA
- Voltage and current monitor
- Programmable current limit and voltage

For all of your multichannel and single channel, CAMAC or RS232-controlled needs, even up to 7 kV, LeCroy has the answer. Contact your local representative.



700 S. Main St., Spring Valley, NY 10977, (914) 425-2000; Geneva, Switzerland, (022) 82 33 55; Heidelberg, West Germany, (06221) 49162; Les Ulis, France, (6) 907.38.97; Rome, Italy, (396) 320-0646; Botley, Oxford, England, (0865) 72 72 75.
Representatives throughout the world.

LeCroy