

People and things

Wolf Prize – Maurice Goldhaber (right) and Valentine Telegdi.

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Wolf Prize

The prestigious Wolf Foundation Prize for Physics is awarded to Maurice Goldhaber of Brookhaven and Valentine Telegdi of ETH Zurich.

Goldhaber is cited particularly for his work on the photodisintegration of the deuteron with Chadwick in 1935, on dipole vibrations of the nucleus with Teller in 1948, on the classification of nuclear isomers and their shell model interpretation (1951), and on the helicity of the electron neutrino with Grodzins and Sunyar (1958). Later he stressed the importance of looking for proton decay.

Telegdi's award recognizes his major contributions to measurements of parity violation, including pioneer demonstrations of the effect in pion decay; work on muon capture; the measurement of the helicity of the muon neutrino; the study of 'muonium'; an innovative method for determining the muon magnetic moment; and several elegant and influential experiments on the neutral kaon system. His early work showed the 'universal' character of weak interactions, where electrons and muons have the same affinity.

Goldhaber's and Telegdi's studies are characterized by their incisiveness and elegance.

On people

As well as the W.K.H. Panofsky Prize for Gerson Goldhaber of Berkeley and François Pierre of Saclay (January/February, page 23), the 1991 American Physical Society (APS) Awards include the J.J. Sakurai Prize for Vladimir N. Gribov of Moscow's Landau Institute for Theoretical Physics. The citation reads 'for his pioneering work on the high energy behaviour of quantum field theories and his elucidating studies of the global structure of non-Abelian gauge theories.'

The APS 1991 Forum Award goes to Victor Weisskopf 'for his life-long effort to stimulate public awareness of the beauty of science and the dangers of its abuses'.

The Prix Ricard of the Société Française de Physique has been awarded to Marcel Banner of Saclay, leader of the Saclay team in the UA2 experiment at CERN's proton-antiproton collider during its first phase of operation (1981-85). He was elected a member of CERN's Scientific Policy Committee in 1986 and is now Head of Experimental Physics in Saclay's Depart-

ment of Elementary Particle Physics.

Odd Dahl honoured

In a simple ceremony in Bergen last year, Norwegian physicist Odd Dahl was presented with a special Honorary Stipend from the Royal Norwegian Council for Scientific and Industrial Research. The citation read 'for his contributions in the furtherance of research and technological development spanning a professional breadth and depth that places him in a special class, both nationally and internationally'.

Dahl played a crucial role in the early days of CERN, leading the machine group which in the 1950s was studying an accelerator 'for energies greater than 10 GeV and in particular the problems of building a scaled-up version of the Brookhaven Cosmotron'. A visit to Brookhaven convinced him of the value of the new principle of strong focusing and he set his sights on a new machine in the 20-30 GeV range which became CERN's Proton Synchrotron. Over 30 years later, this remains the hub of CERN's unique interconnected particle beam system.

Dahl is now retired and living at Skandia Aldershjem, Kong Oscarsgate 22, 5017 Bergen, Norway.

D.V. Skobelzyn 1892-1990

D.V. Skobelzyn, who died on 16 November, was well-known for his many pioneering contributions to cosmic ray and particle studies which helped provide a solid foundation for modern physics. Beginning in 1923 in Leningrad, these early cloud chamber studies in-

cluded the observation of several new fundamental processes. His research also led to the development of ionization calorimeters, and the idea of using solid iron magnets for studying penetrating particles. From 1929-31 he visited the Curie Laboratory in Paris.

Shortly before the Second World War he moved to Moscow's Lebedev Physical Institute, where he went on to serve as Director for more than twenty years (1950-72).

Carl D. Anderson 1905-1991

Carl D. Anderson, best-known for his discovery of the positron in 1931, died on 11 January. As student of Robert Millikan at Caltech, he received his PhD in 1930, and at Millikan's suggestion began to look at cosmic rays using a cloud chamber, building a detector with the highest magnetic field then available (25 kilogauss).

Suggestions of particles moving in the 'wrong' direction in this field were confirmed by mounting a sheet of lead across the chamber, and the discovery of the positron – the antiparticle of the electron – followed, confirming Dirac's contemporary theory. At the time Anderson said 'I knew about the Dirac theory... but was not familiar with it. I was too busy operating my equipment....'.

Subsequently, with Seth Neddermeyer, he continued cloud chamber cosmic ray studies, finding initial evidence for what they called a 'heavy electron' and only ten years later was finally identified as the mu-meson, or muon.

For his positron discovery, he was awarded the 1936 Nobel Physics Prize, sharing it with Viktor Hess of Innsbruck, who was honoured for his discovery of cosmic

rays. For his entire research career Anderson remained at Caltech, retiring in 1976.

Meetings

Physics in Collision XI will be held from 20-22 June in Colmar (France). Attendance is by invitation only. Information e-mail PHYS-COLL at FRCCSC21 or phone D. Huss – (33) 89 42 48 46, or J.-M. Brom – tel (33) 88 28 62 72.

The International Symposium on Hypernuclear and Strange Particle Physics will be held in Shimoda, Japan, from 9-12 December, organized by Tokyo's Institute for Nuclear Study (INS) as the 20th INS International Symposium. Information from Osamu Morimatsu, Institute for Nuclear Study, University of Tokyo, 3-2-1 Midori-cho, Tanashi, Tokyo 188, Japan, phone 0424-61-4131 ext 222, fax 0424-62-0763, e-mail (bitnet) hyper91 at jpnutins or (decnet) 41729::hyper91

The 8th Meeting of the International Radiation Protection Association will be held in Montreal from 17-22 May, 1992. Further information from IRPA 8, 2155 Guy Street, Suite 820, Montreal, Quebec, Canada H3H 2R9; fax (514) 932-9419.

A Conference on Liquid Noble Gas Detectors and their Applications will be held in Stockholm from 21-23 August. Planned topics include state-of-the-art of detector systems, applications to LHC and SSC, double beta-decay, astrophysics, etc. Suggestions are welcome. CERN Research Director W. Hoo-gland will talk about the R&D for LHC, and F. Engstroem, director of

ESA's European space station, will cover space activities. Information from Thomas Lindblad, MSI, S-104 05 Stockholm, Sweden; phone +468 16 11 09; fax +468 15 86 74; bitnet LINDBLAD at VAND.PHYSTO.SE

1991 CERN School of Computing

The 1991 CERN School of Computing, to be held from 23 August to 2 September, is organized in collaboration with the Swedish Physical Society's Section of Particle Physics and will take place at Ystad, 60 km east of Malmö. The programme will evolve around four main themes – Requirements for LHC, Artificial Intelligence, Computer Architecture, Operating Systems and Languages. Information from Mrs. I. Barnett, CN Division, CERN, 1211 Geneva 23, Switzerland; e-mail barnett at cernvm.cern.ch

DESY Theory Workshop

The 1991 DESY Theory Workshop will take place from 30 September – 2 October, the title being 'The Standard Model at High Temperature and Density'. Organizing committee chairman is Helmut Satz of Bielefeld, currently at CERN's Theory Division (bitnet satz at cernvm.cern.ch). Registration requests should be sent to Helga Laudien, DESY Theory Group, Notkestrasse 85, D-2000 Hamburg, Germany.

Books

Cosmic Rays and Particle Physics once used to overlap considerably, but since the advent of high energy accelerators have tended to diverge slightly, isolating their re-

search communities. This is a pity, because much of the central subject matter remains common ground. However this trend is rectified in a new book 'Cosmic Rays and Particle Physics' by Thomas K. Gaisser published by Cambridge University Press (ISBN hardback 0 521 32667 2, paperback 0 521 33931 6). It concentrates on the highest energy cosmic rays, their possible origin and their means of detection.

From North Holland comes 'Astrophysics of Cosmic Rays' by V.S. Berezinskii, S.V. Bulanov, V.A. Dogiel, V.L. Ginzburg (editor) and V.S. Ptuskin (translated from Russian, ISBN 0 444 88641 9) which concentrates on the main issues and provides a useful introduction and survey.

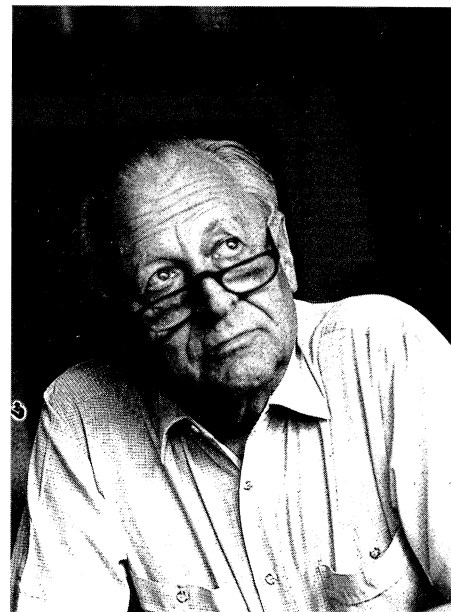
Noell extends magnet interests

Noell GmbH of Würzburg, a member of the Preussag industrial group, is extending its interests in magnet technology, and the relevant product range of ABB Mannheim was taken over at the end of last year.

Noell supplied 120 superconducting quadrupoles for the HERA electron-proton collider soon to be commissioned at the German DESY Laboratory in Hamburg, and has recently been awarded a CERN order for four prototype full-length (10 m) twin aperture dipoles for the LHC proton collider proposed for CERN's 27-kilometre LEP tunnel.

A total of eight of these prototypes have been ordered by CERN from various firms, and two have been ordered by the Italian INFN from Ansaldo. As well as the four from Noell, CERN has also ordered two from Ansaldo, and one each from Elin in Austria and Alsthom-Jeumont in France.

Albert Burger 1923-1991.



Albert Burger 1923-91

Albert Burger, one of CERN's earliest staff members, died on 20 January. He joined the Organization in 1955, and gained valuable experience at the Synchrocyclotron of the Carnegie Institute of Technology, Pittsburg, Pennsylvania, where he took part, under the direction of Professor Ashkin, in an important experiment on pion-proton scattering.

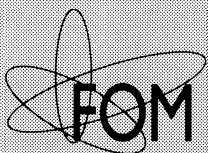
On his return to Geneva in 1957, he joined the hydrogen bubble chamber group and participated actively in the construction of CERN's first bubble chambers. In 1961 he became deputy to Charles Peyrou, head of the Track Chambers Division. His very efficient and characteristically modest management of TC administration, personnel and financial affairs was a major contribution to the Division's success, whose major task was the construction and operation of the 2-metre chamber and BEBC. The large number of pictures produced and distributed all over Europe contributed greatly to the early participation of outside groups in particle physics.

His organizing talents greatly facilitated the restructuring of TC into EF Division, and in particular his financial skills in the face of limited funding allowed the Division to provide the necessary support for the construction of the LEP detectors.

After leaving CERN in 1988, he represented retired personnel in CERN's Staff Association.

The Foundation for Fundamental Research on Matter

The foundation FOM is an organization for research in the area of physics with some 1100 employees. Research is executed by task-forces at university laboratories and institutes. The National Institute for Nuclear Physics and High Energy Physics (NIKHEF) in Amsterdam is one of these institutes; a cooperation of FOM, the Free University (VU) in Amsterdam, the University of Amsterdam (UvA) and Catholic University of Nijmegen (KUN). The NIKHEF staff counts about 350 people spread over two sections. Most experiments of the Nuclear Physics section (K) use their own electron accelerator MEA. For the experimental program of the High Energy Physics section (H) the facilities of CERN and DESY are used.



Accelerator physicist m/f

At the National Institute for Nuclear Physics and High Energy Physics (NIKHEF) in Amsterdam, fundamental nuclear physics research is carried out with a 500 MeV linac. Presently the duty factor is typically 1%. In order to increase both the duty factor and the energy (to >80% and 900 MeV respectively), a Pulse Stretcher/Storage Ring (called AmPS) will be added to the facility. AmPS is currently under construction, and will be commissioned in 1992. A temporary position (2 years; extension with a maximum of 2 years is possible) for an accelerator physicist is available.

Job description

The appointee will prepare and take part in the commissioning of AmPS. This includes beam dynamics simulations, both for the internal and extracted beam. Increasing the duty factor is an important objective of the facility. Studying the extraction process, therefore, will constitute an important part of the job; extension of the currently available simulation program package will form another part.

Requirements

Candidates should have a physics, engineering or mathematics degree, with Ph.D. or equivalent practical experience. Experience with accelerator design and computer simulation would be an advantage.

Information

Further information on the position may be obtained from ir. G. Luijckx, project leader of AmPS, or from dr. R. Maas, telephone +31 20-5922142.

Application

Letters of application, including curriculum vitae and references are to be sent within three weeks after publication of the advertisement to mr. T. van Egdom, P.O. Box 41882, 1009 DB Amsterdam, The Netherlands.



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The present High Energy Physics group has an active program at BNL, CERN, FNAL, and SSC. At Brookhaven National Laboratory the group is playing a leading role in the construction of a major new experiment (E852) in precision meson spectroscopy including searches for hybrid and glueballs, using an upgraded MPS. The Indiana group is constructing a 3000 element lead glass array. The MPS upgrade also include a CsI barrel veto, new chambers and a Cerenkov counter. At CERN we are members of the OPAL collaboration, working on the silicon microvertex chamber and on a forefront offline analysis facility utilizing RISC processors that access data via ULTRANET. Physics interests include electroweak interaction and heavy quark physics, especially B decays. LEP will be the premier accelerator to study the B_c . The Fermilab program includes a running fixed target dimuon spectrometer, E672, and participation in the D0 detector on the Tevatron collider. The D0 group is working on the muon system and offline analysis, with emphasis on central tracking. We are members of the SoLoidal Detector Collaboration (SDC) at SSC and are working on both hardware development and computer simulation for a wire chamber tracking system.

To apply, please send a complete vita (including a description of research interests, accomplishments, and a list of publications) as well as the names and telephone numbers of at least three references to be sent to

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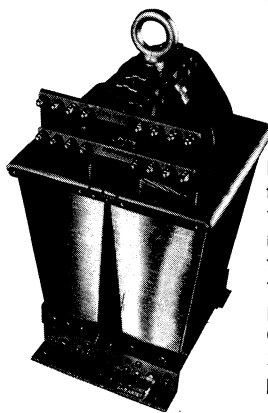
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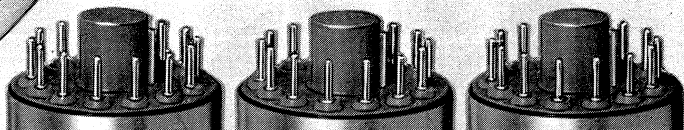
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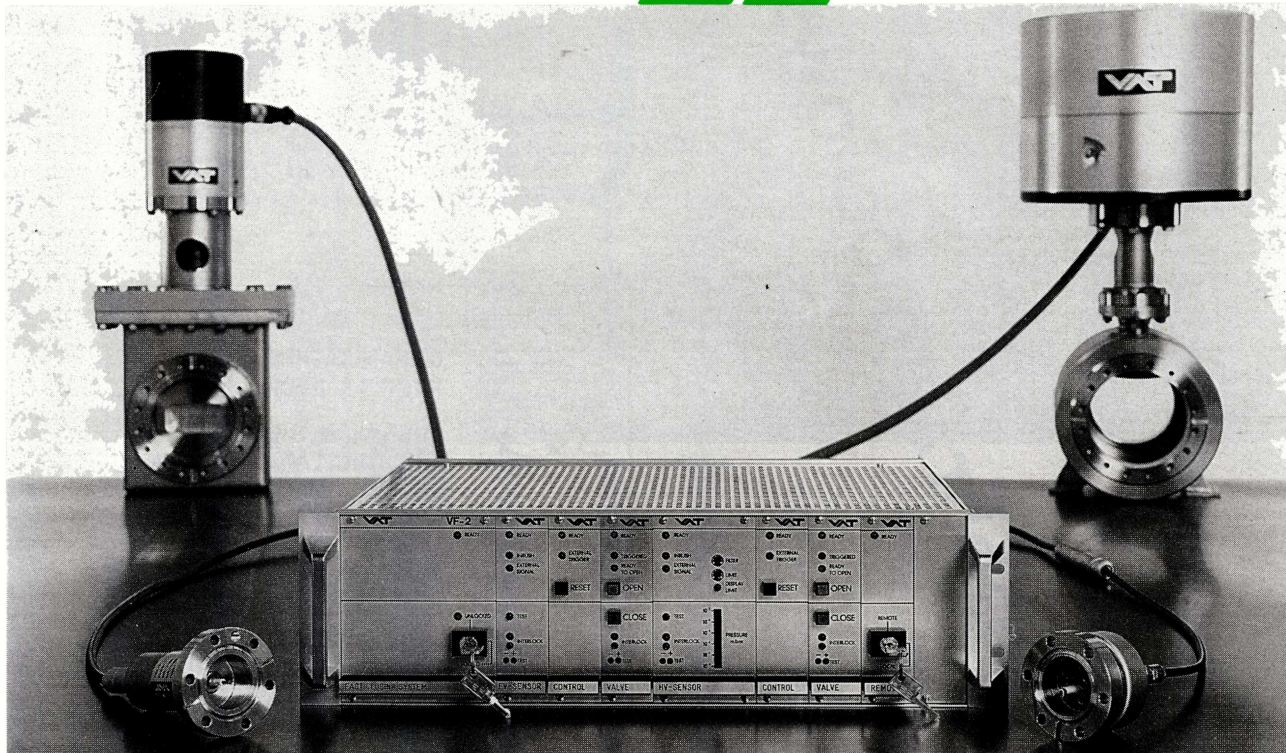
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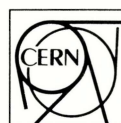


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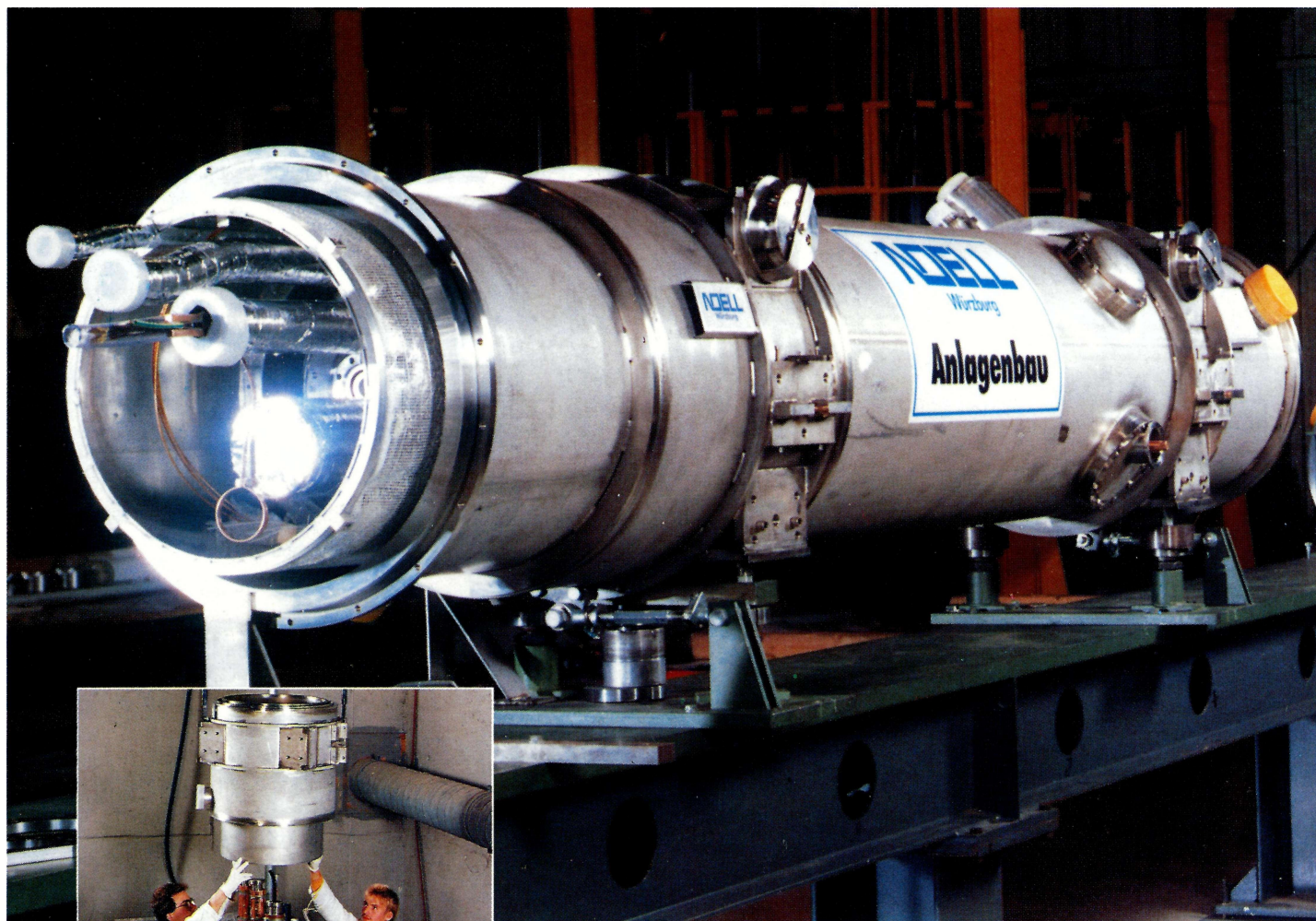
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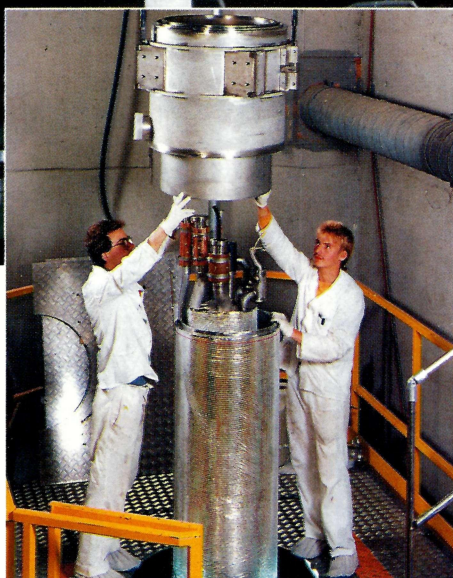
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