

People and things

Rafel Carreras of CERN – explaining science

On people

Joachim Heintze of Heidelberg receives the Max Born Prize for his work in particle physics, particularly the investigation of the study of weak interactions and the development of precision measurement techniques.

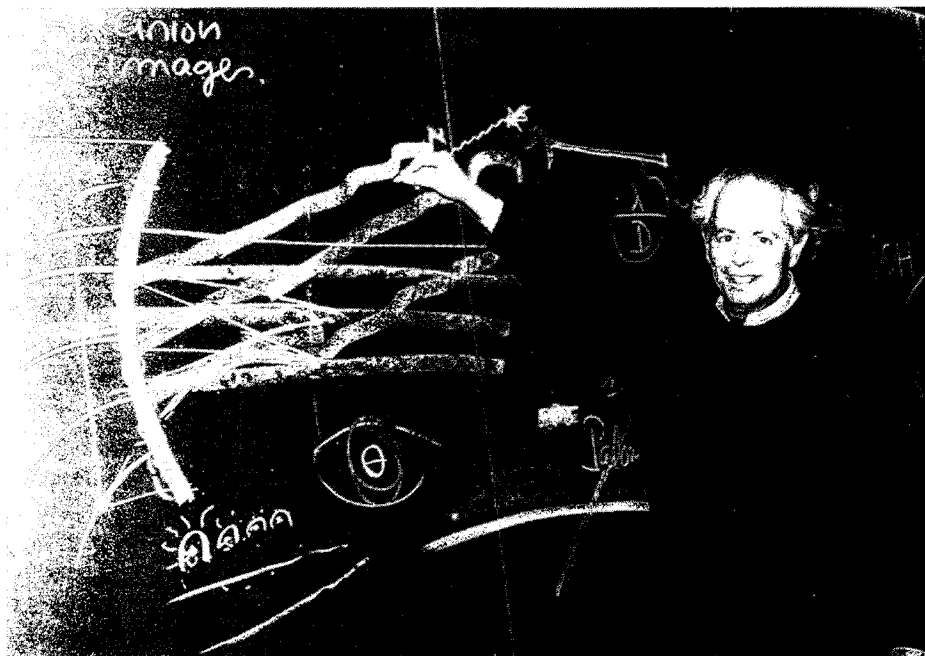
The Max Born Prize is presented jointly by the UK Institute of Physics and the Deutsche Physikalische Gesellschaft.

Rafel Carreras of CERN receives this year's popularization of science prize awarded by Geneva University and sponsored by the weekly 'Médecine et Hygiène'. His memorable weekly 'Science for all' and monthly 'Science today' sessions at CERN attract good audiences, from within CERN and from further afield.

Carl Ivar Bränden from Uppsala has joined the European Synchrotron Radiation Facility in Grenoble as Research Director, taking over from Andrew Miller.

10 Tesla magnet at Berkeley

A 5cm bore dipole magnet built at the Lawrence Berkeley Laboratory has reached a central field of 10.06 Tesla at 1.75K. It has cable identical to that used in the dipoles to be used for the Superconducting Supercollider (SSC), but a slightly different design. The SSC dipoles, operating at 4K liquid helium temperatures, provide 6.6 Tesla. Last year (December 1991, page 1), a twin aperture dipole of the type envisaged for CERN's LHC collider reached a field of 10.2 Tesla.



Induction linac systems experiments

On 5 March, William Happer, Director of the Office of Energy Research of the US Department of Energy, approved a mission need statement for the Induction Linac Systems Experiments (ILSE).

The ILSE project is needed to advance the understanding of high-current, heavy-ion accelerator physics so that basic technical questions concerning the suitability of this approach for inertial fusion energy can be resolved on a timescale that meets the goals of the US National Energy Strategy.

Following this approval, N. Anne Davies of the Office of Fusion Energy authorized the Heavy Ion Fusion Accelerator Research Group at Lawrence Berkeley Laboratory to undertake the conceptual design of ILSE. If the project is funded, construction of ILSE could begin as early as 1994. The Berkeley Group currently estimates the total project cost to be about \$70M.

Accelerator Instrumentation Workshop

The dates for the forthcoming Accelerator Instrumentation Workshop at Berkeley have been fixed for 27-30 October. Jim Hinkson and Greg Stover are co-chairmen.

Meanwhile the deadline for nominations for the Bergoz Faraday Cup Award for innovative beam instrumentation (January/February, page 26) has been put back to 1 August.

European Physical Society

The 1992 Council Meeting of the European Physical Society in Athens in March drew record attendance. EPS President Maurice Jacob of CERN was re-elected for a second year, and former CERN Director General Herwig Schopper, now President of the Deutsche Physikalische Gesellschaft, was elected to the EPS Executive Committee.

The Council approved the admission of four new national societies, those of Albania, Croatia, Estonia and Lithuania. In a magnanimous gesture, several Western societies offered to subsidize the fees of some Central and Eastern European partners.

Meetings

An Antihydrogen Workshop will be held in Munich on 30-31 July to review the exciting physics possibilities with atoms of antimatter. Further information from John Eades at CERN, PPE Division, 1211 Geneva 23, Switzerland, fax +41 22 767 3500, or e-mail eades at vxcern.cern.ch quickly because the deadline is imminent.

The Second Workshop on Tau Lepton Physics will be held at Ohio State University (Columbus, Ohio) from 8-11 September. A sequel to the successful workshop at Orsay (December 1990, page 22), this workshop will examine current tau topics including lepton universality, hadronic decays, electroweak interactions, tau mass, tau neutrino mass and its implication for cosmology, and future prospects. This workshop is by invitation only, so please contact K.K. Gan or Chris White for further information (e-mail: TAU92@OHSTPY, fax: 614-292-8261).

The Sixth International School of Physics in Bodrum (Turkey) will be held from 12-25 September under the title 'Particle Physics and Cosmology'. It is aimed primarily at students, and lecturers will include E. Kolb of Fermilab, A. Ali of DESY and M. Green, R. Voss and E. Wilson

of CERN, while Ken Peach of Edinburgh is Course Director. Closing date for applications is 15 June. Application forms from Susannah Tracy /DG-A, CERN, 1211 Geneva 23, Switzerland, e-mail tracy at cernvm.cern.ch

The International Workshop on Polarized Ion Sources and Polarized Gas Targets will be held from 23-27 May 1993 at the University of Wisconsin, Madison, Wisconsin, and sponsored by the International Union of Pure and Applied Physics (IUPAP). The Workshop will cover the basic phenomena governing the production of polarized ion beams and polarized gas targets, as well as including reports on the design, construction and performance of polarized gas targets and ion sources for polarized particles.

Further information from L.W. Anderson or W. Haeberli, Department of Physics, University of Wisconsin, 150 University Avenue, Madison, WI 53706, USA, phone (608) 262-6555/8962, fax (608) 262-3598 or e-mail (bitnet) MADSPIN at wiscnuc

Gian Carlo Wick 1909-1992

Gian Carlo Wick, celebrated and prolific theorist, died in his home town of Turin on 20 April at the age of 82 after a remarkably long, productive career. After short spells with Heisenberg's group in Leipzig and Born's group in Göttingen, he moved to Rome in 1932 to begin physics with Enrico Fermi. Here he wrote his famous paper on the magnetic moment on the rotating hydrogen molecule, and went on to address a range of important topical questions, including the implications

Gian Carlo Wick 1909-1992

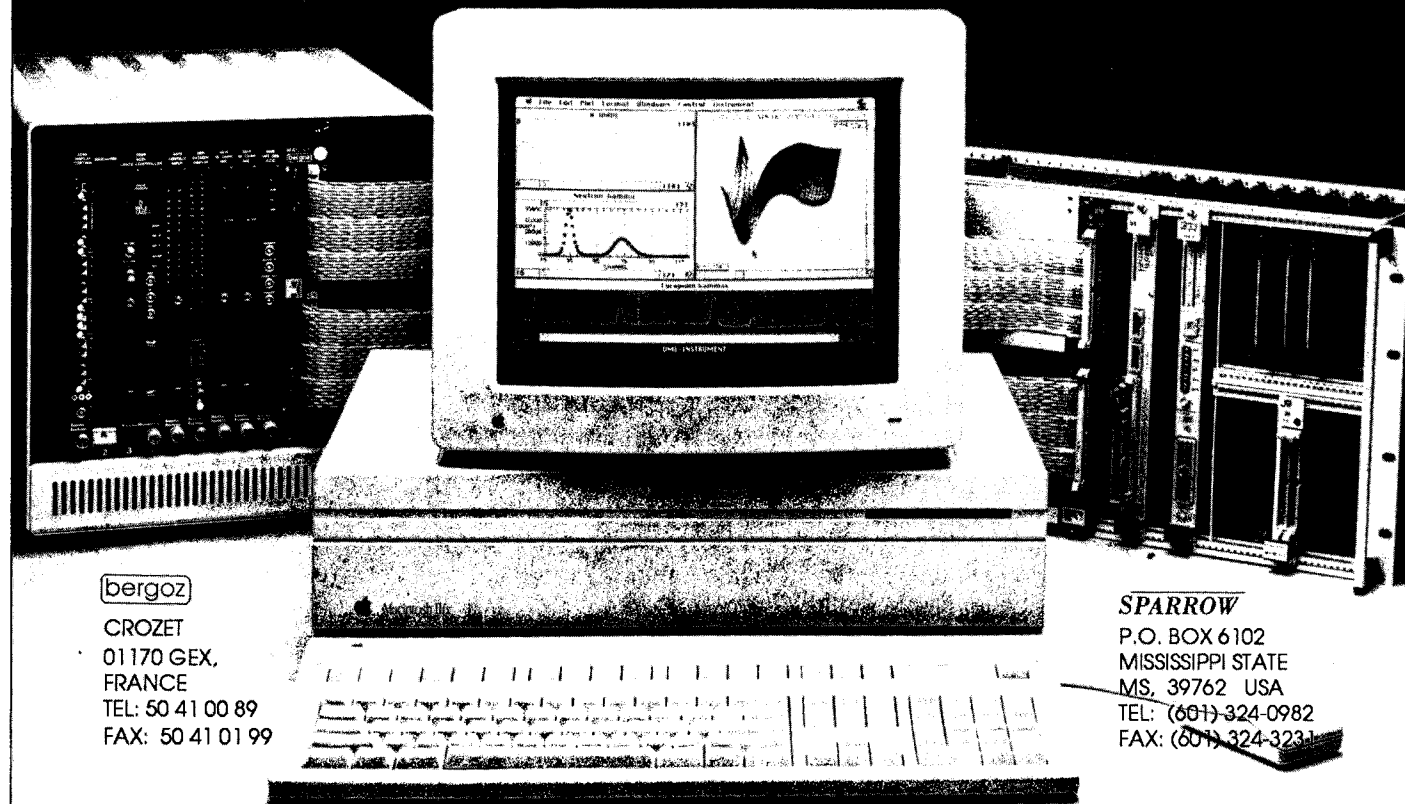


of Fermi's picture of weak interactions for positron emission.

After Fermi left Italy for the United States in 1938, Wick was invited to take the vacant professorial chair at Rome, where he played a vital role in the developments leading up to the discovery of what eventually came to be known as the muon.

After the War, Wick went to the United States, eventually settling at Columbia in 1965. In the US he continued his prolific output, in 1950 producing the famous 'Wick Theorem', a vital part of quantum electrodynamics perturbation formalism. In 1959, with Maurice Jacob (later to come to CERN) he developed the famous helicity formalism for handling collision problems. Later, with T.D. Lee at Columbia, he developed the theory of pion condensates. In 1967 he was awarded the prestigious Dannie Heineman Prize of the American In-

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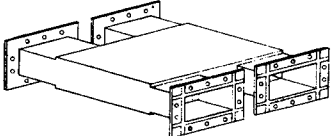
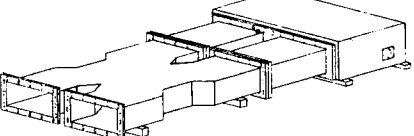
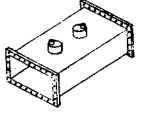
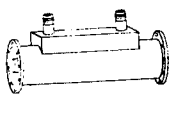
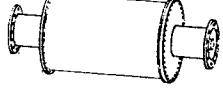
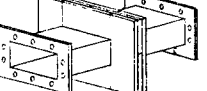
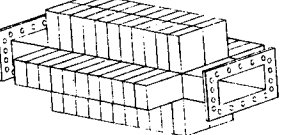
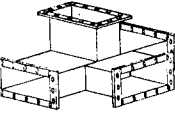
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Further information about the positions in question can be obtained from Prof. V.Særgel.

stitute of Physics for his contributions to quantum field theory, for his investigation of the theory of scattering of particles with spin, and his deep analysis of physics symmetry principles. After retiring from Columbia in 1978, he returned to Italy to teach at Pisa.

Gerald Feinberg 1933-92

Theorist Gerald Feinberg of Columbia died on 28 April. In 1958, his theoretical paper on the apparent reluctance of the muon to decay into an electron and a photon stimulated thinking which eventually led to the 1962 discovery by his Columbia colleagues Leon Lederman, Mel Schwartz and Jack Steinberger that there are two distinct kinds of neutrinos. Feinberg was also the author of several books and worked enthusiastically to further the understanding of science in general and physics in particular.

Feza Gürsey 1921-92

The eminent Turkish theorist Feza Gürsey died on 7 April. He was best known for his development (with Luigi Radicati) of SU6 particle symmetry in 1964, one of the landmarks of modern theory.

After initial studies in statistical mechanics, electrodynamics and general relativity, he became interested in the underlying symmetries of basic physics. Although appointed to the Middle East Technical University in Ankara in 1961, he continued to be a frequent visitor to the United States. On one such visit, to Brookhaven in 1964, he and Radicati noticed how the SU3 (quark) symmetry

very much in vogue at the time could be readily combined with spin angular momentum to make an appealing new SU6 picture of particle 'super-multiplets', with powerful new predictions.

In 1968 he moved to Yale, and in 1977 was appointed to the prestigious Gibbs chair. He retired from Yale last year. His later work was much concerned with basic symmetries, where he showed the power of the (exceptional Lie) groups E6, E7 and E8, and with applying mathematical approaches, such as quaternions and octonions, to basic problems.

He was influential in promoting Turkish physics, and it was natural that a high proportion of his students came from that country. He shared the Oppenheimer prize with Sheldon Glashow in 1977, and was awarded the Wigner medal in 1986.

From Louis Michel

Gerry O'Neill

In April, Gerry O'Neill of Princeton died. He played an important role on the US accelerator scene as it grew in strength in the 1950s and 1960s. In particular he pushed the development of colliding beam techniques, making major contributions to the first storage ring project in the US – the two-ring PRISTAN electron-electron collider built at Stanford (using the Mark III linear accelerator) by a Princeton-Stanford collaboration. He was also a strong supporter of the CERN Intersecting Storage Rings project, and never wavered in his belief that the machine would turn out to be a success.

Polarized beams at SLC

The SLC Stanford Linear Collider is colliding electrons and positrons using polarized electrons (about 20-30% polarization). The SLC beams follow installation of a new diode (as opposed to triode) gun early in April. More news next month.



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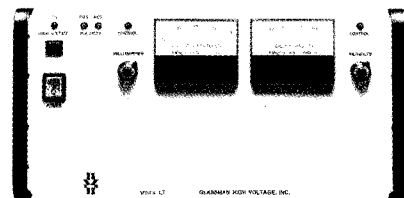
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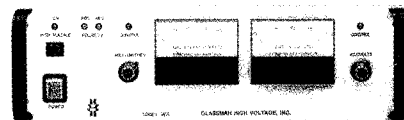
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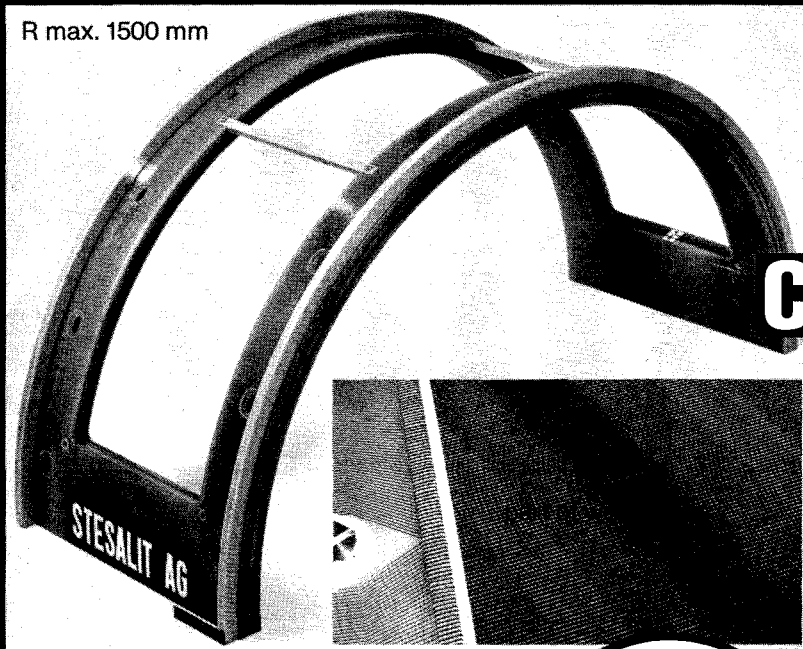
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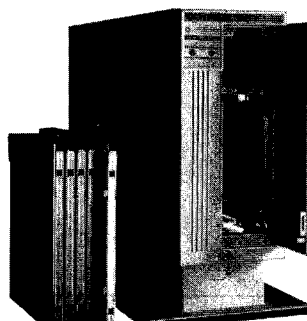
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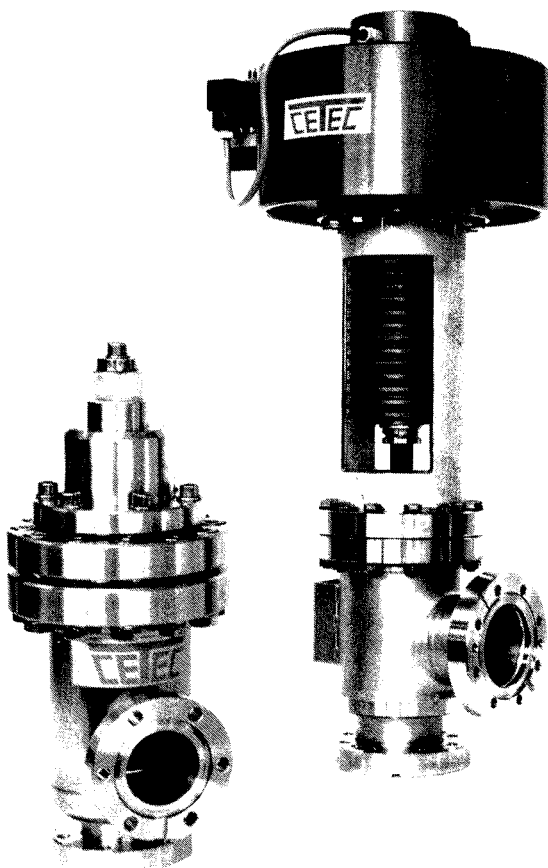
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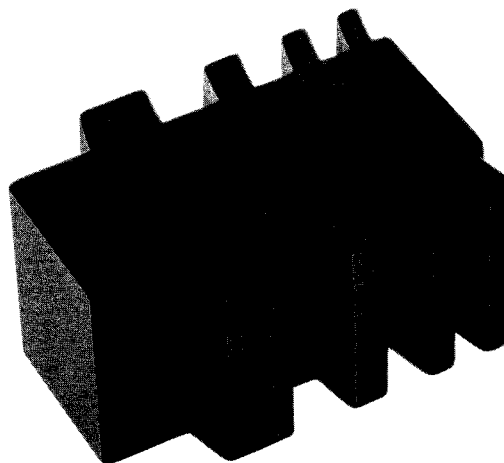


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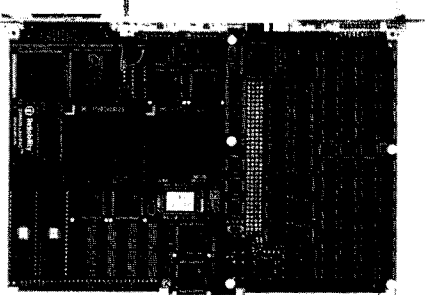
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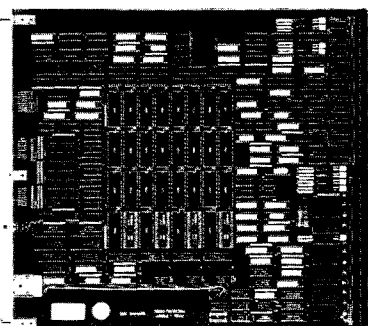
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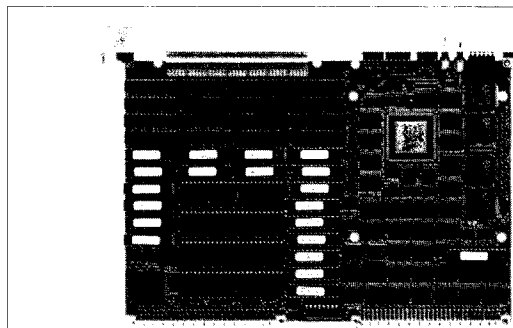
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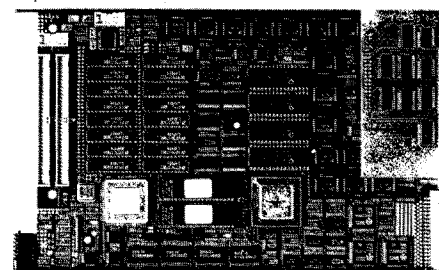
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