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HEPAP

The US High Energy Physics Advisory Panel (HEPAP) this year is: Stanley Wojcicki (Stanford, Chairman), Edmond Berger (Argonne), Karl Berkelman (Cornell), Alex Chao (SSC), Jonathan Dorfman (SLAC), Jerome Friedman (MIT), Mary K. Gaillard (Berkeley), Robert Gluckstern (Maryland), Laurence Littenberg (Brookhaven), Pierre Ramond (Florida), Don Reeder (Madison, Wisconsin), Melvyn Shochet (Chicago), Arthur Smith (Princeton), Kenneth Stanfield (Fermilab), Mark Strovink (Berkeley), Michael Witherell (Santa Barbara).

On people

Rich Orr has retired from Fermilab after a 21-year career at the Laboratory covering many different aspects of management – science, R&D, accelerator construction and operation, support, and administration – in a series of key posts under successive Fermilab Directors.

New members of the US National Academy of Science include Mary K. Gaillard of Berkeley and Toichiro Kinoshita of Cornell, while Richard Dalitz of Oxford becomes a Foreign Associate.

The traditional Bernard Gregory Lectures at CERN and in Paris were given this year by distinguished mathematician Benoit Mandelbrot of Yale and IBM's T.J. Watson Research Center on 'Fractals in physics – from fraction dimensions to negative dimensions'. Mandelbrot's pioneer fractal ideas have stimulated a whole new area of applied mathematics whose characteristic vivid computer graphics are always admired.

(Photo Maurice Jacob)

Georg Bollen of Mainz receives the 1991 Mattauch-Herzog Prize of the German Working Group for Mass Spectrometry for his thesis work at CERN's ISOLDE on-line mass separator involving very accurate isotope mass measurements.

DESY Research Director

Albrecht Wagner becomes DESY Research Director, taking over from Paul Söding, who returns to active research. Wagner has been a member of the OPAL collaboration at CERN, where he had worked earlier on hyperon and kaon decays. He has also carried out heavy ion studies at Berkeley, turning later to DESY's DORIS ring and subsequently the JADE group at the PETRA ring.

Prix Scientifique UAP

Sergio Ferrara of CERN's Theory Division has been awarded the Prix Scientifique UAP for his pioneer contributions to the theory of supergravity.

D.Z. Freeman (MIT) and P. van Nieuwenhuizen (Stony Brook) write: 'It is a great pleasure to con-



gratulate our coauthor and friend Sergio Ferrara. In 1976, after the three of us invented supergravity, the gauge theory of supersymmetry, enormous activity followed. Within a month, S. Deser and B. Zumino found a simpler reformulation of the results. The extended and conformal supergravities were constructed, and a tensor calculus for general supergravity models established.

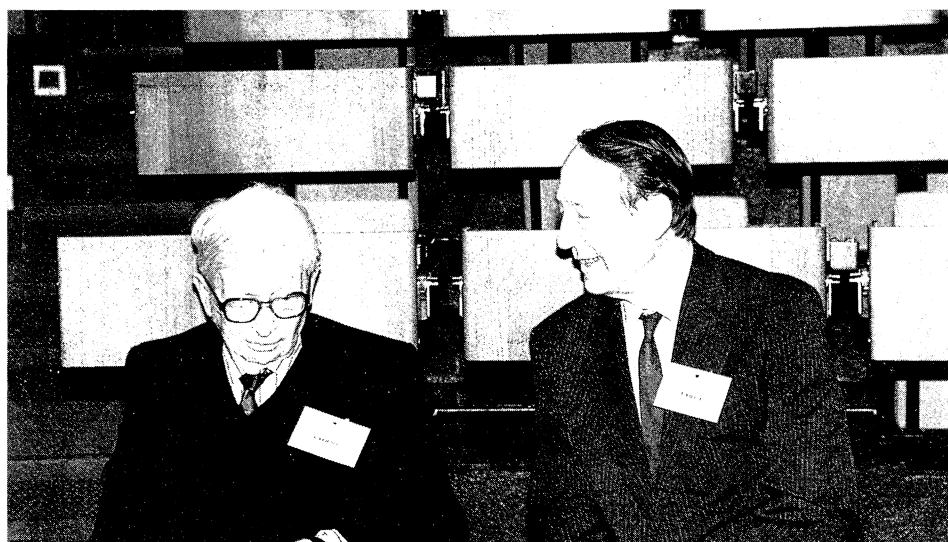
It was soon realized that only in supergravity models (but not rigidly supersymmetric models) can one spontaneously break supersymmetry without creating an unacceptably large cosmological constant. The general form of supersymmetric extensions of the Standard Model was found, exhibiting both gauge and supersymmetric spontaneous symmetry breaking, with gravitinos acquiring a mass through the super-Higgs effect, and mass relations between particles and their superpartners were derived. In many of these developments, Ferrara played a major role. He also coinvented the rigidly supersymmetric gauge theories and started many active international collaborations.'



▲ Participants at the 'Electronics for Future Colliders' conference held 22-23 May at the HQ of electronics suppliers LeCroy, Chestnut Ridge, New York, to look at electronics prospects for the coming generation of proton and ion colliders. The optimistic mood of the meeting was reflected by one participant, who, after surveying the already remarkable electronics achievements of recent years, said 'you ain't seen nothing yet!'.

Third European Particle Accelerator Conference

The Third European Particle Accelerator Conference (EPAC92) will take place in the reunified city of Berlin, at the Technical University of Berlin, from 24-28 March 1992. As is now usual for EPAC, the programme will provide a comprehensive overview of research, technol-



A special symposium, held at CERN on 2-3 May in memory of distinguished CERN theorist John Bell who died on 1 October last year, attracted prominent physicists from all over the world and provided a rarely encountered level of scientific erudition, in keeping with the lofty standards set by John Bell himself. The proceedings were introduced by Sir Rudolf Peierls, to whose Birmingham school the young Bell came in 1953 to learn about modern theoretical physics, seen here (left) at the symposium with spontaneous symmetry-breaking pioneer Tom Kibble of London's Imperial College.

(Photo CERN H12.5.91)

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Format A4

Monthly publication

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GENERAL ENGINEER/PROJECT MANAGER

The U.S. DEPARTMENT OF ENERGY currently has a vacancy in the Batavia Area office located at Fermi National Accelerator Laboratory site for a degreed individual who will serve as Project Manager for the Fermilab Main Injector construction project which has been designated a DOE major systems acquisition project.

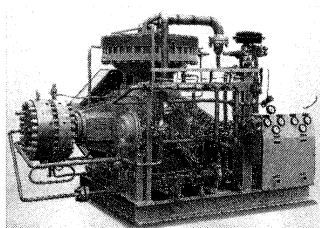
The Project Manager is responsible for day to day management of the estimated \$197 million project, scheduled to begin in FY 1992 and which will take approximately 4-5 years to complete. This project includes the construction of a two mile underground enclosure for relocating the Fermi Main Ring Accelerator and associated technical components.

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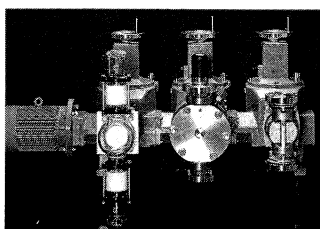
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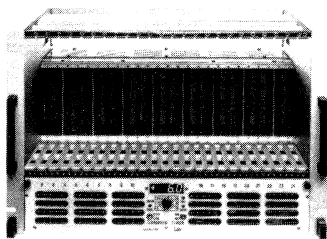
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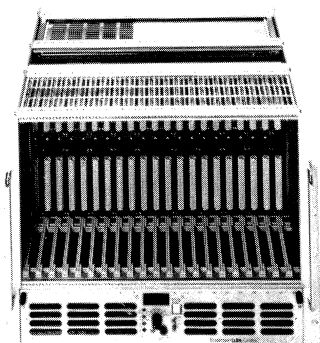
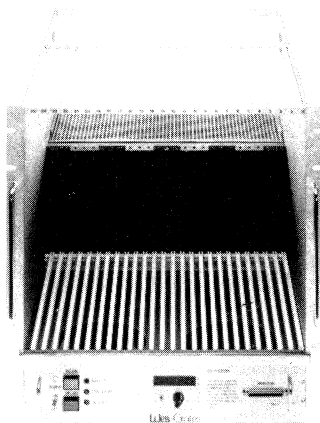
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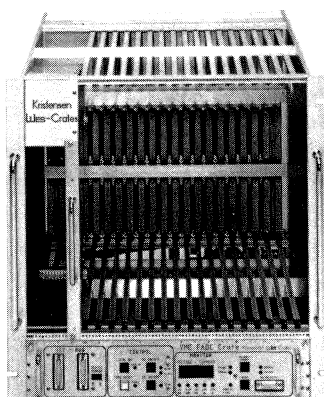


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ogy and special applications in the field of accelerators, this time with particular emphasis on synchrotron radiation sources and technology. (A special feature will be a session entirely devoted to developments in the field of compact synchrotron radiation sources and their applications.) Parallel sessions will be kept to the minimum. An industrial exhibition is also planned.

The participation of members of the whole community, European and non-European, is welcomed, and that of young scientists and students joining the field in particular. A limited amount of financial support is set aside for the latter and applications should be made to the Chairman of the Local Organizing Committee. The deadline for the receipt of abstracts is 30 September.

Further information from Prof. H. Henke, Chairman of the Local Organizing Committee, Technical University of Berlin, Institut für Theoretische Elektrotechnik, Einsteinufer 17, D – 1000 Berlin 10, Tel. (004930) 314 22490, Fax. (004930) 314 22284.

CEBAF meeting

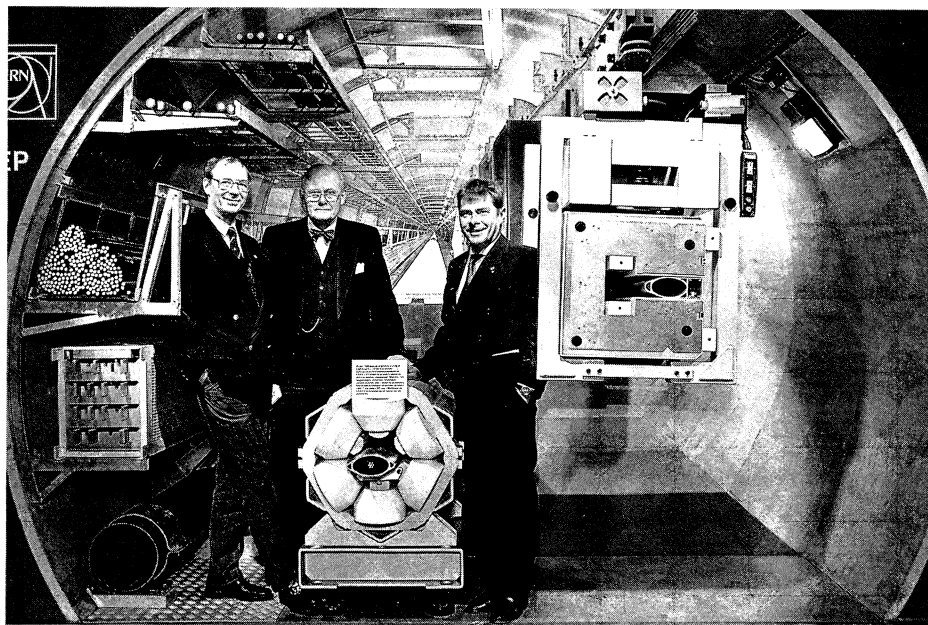
An Accelerator Instrumentation Workshop will be held from 28-31 October 28-31 at CEBAF, Newport News, Virginia, to study engineering aspects of hardware devices and systems employed in particle accelerators for beam diagnostics and control. Information from Cela Callaghan, CEBAF Center, MS 12A, 12000 Jefferson Avenue, Newport News, Virginia 23606, USA; tel: (804) 249-7397, fax: (804) 249-7398, bitnet APD at CEBAF

Arne Lundby 1923-1991

Arne Lundby, who died in March, came to CERN in 1956 after starting his career in Enrico Fermi's Chicago group. An ingenious experimenter, he collaborated in an important series of pioneer CERN hadron dynamics studies, including the pion-proton 'backward peak' and the famous proton-antiproton 'dip'. Later he turned to heavy quark spectroscopy, where he continued to play an active role after his 'retirement' in 1988. He was also a gifted teacher who liked to keep in contact with his students. He was a Professor at Oslo University and a Member of the Norwegian Academy of Sciences.

CERN's travelling exhibition visited Denmark for the first time, installed at the Tycho Brahe Planetarium in Copenhagen. Seen here in front of a mock-up of CERN's LEP tunnel are, left to right, Egil Lillestøl of CERN, Thor A. Bak of the University of Copenhagen, and Director of the Planetarium Nils Armand Pedersen.

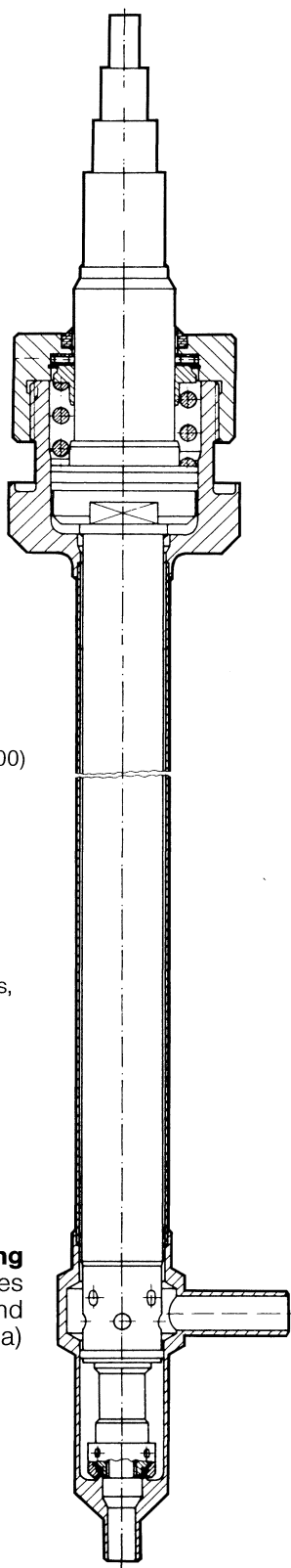
(Photo Peter Thernvig)



LHC News

CERN is launching LHC News, a new publication introducing the Large Hadron Collider being planned for the LEP tunnel. LHC News will be published, in English only, several times a year. To get on the mailing list contact Monika Wilson at CERN, 1211 Geneva 23, Switzerland, fax (+41 22) 782 1906, bitnet monika at cernvm.cern.ch

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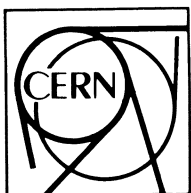
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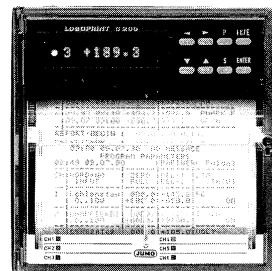
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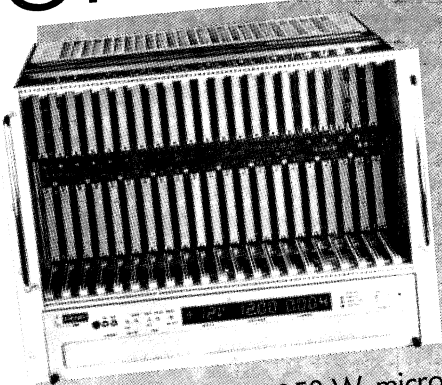
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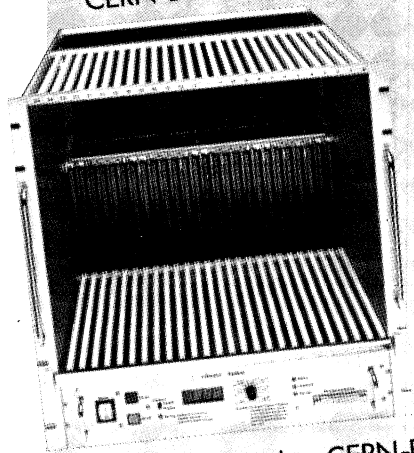


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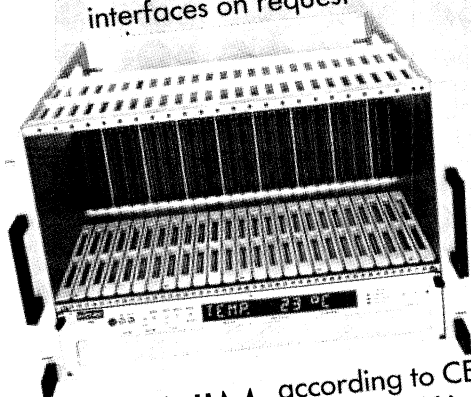
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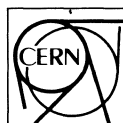
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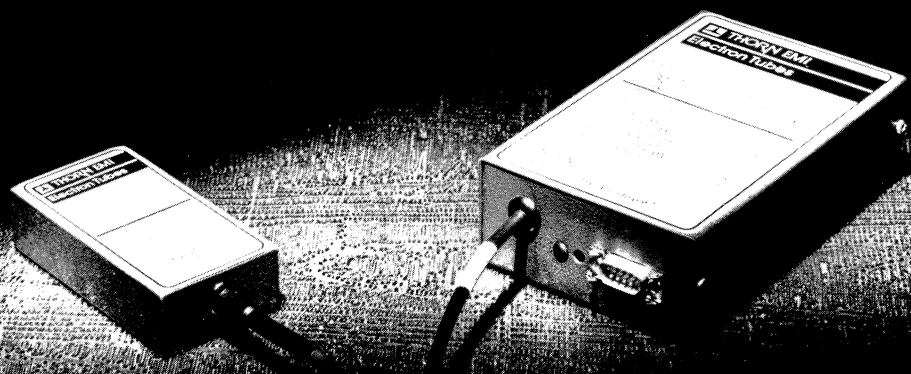
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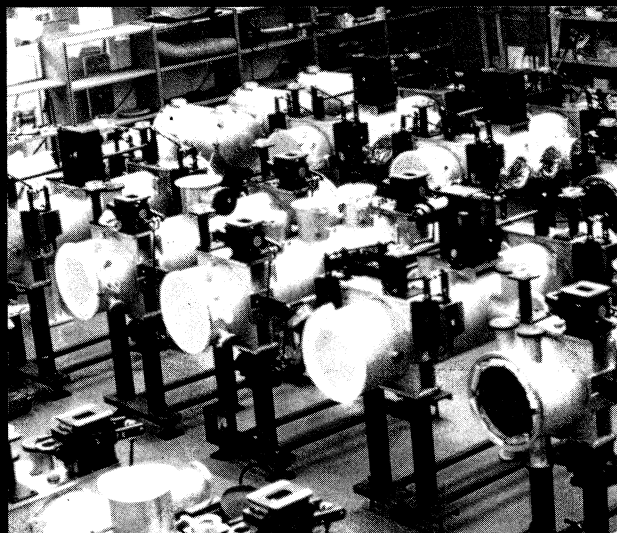
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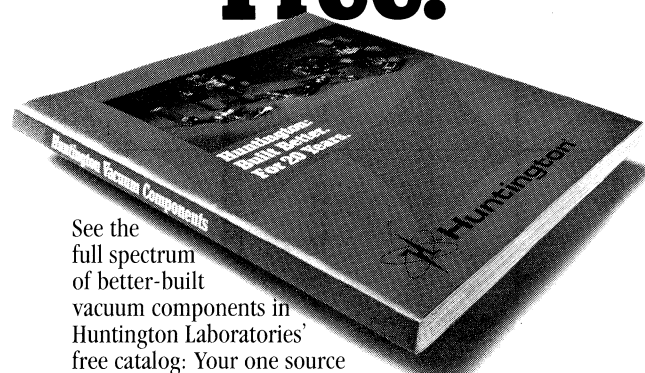
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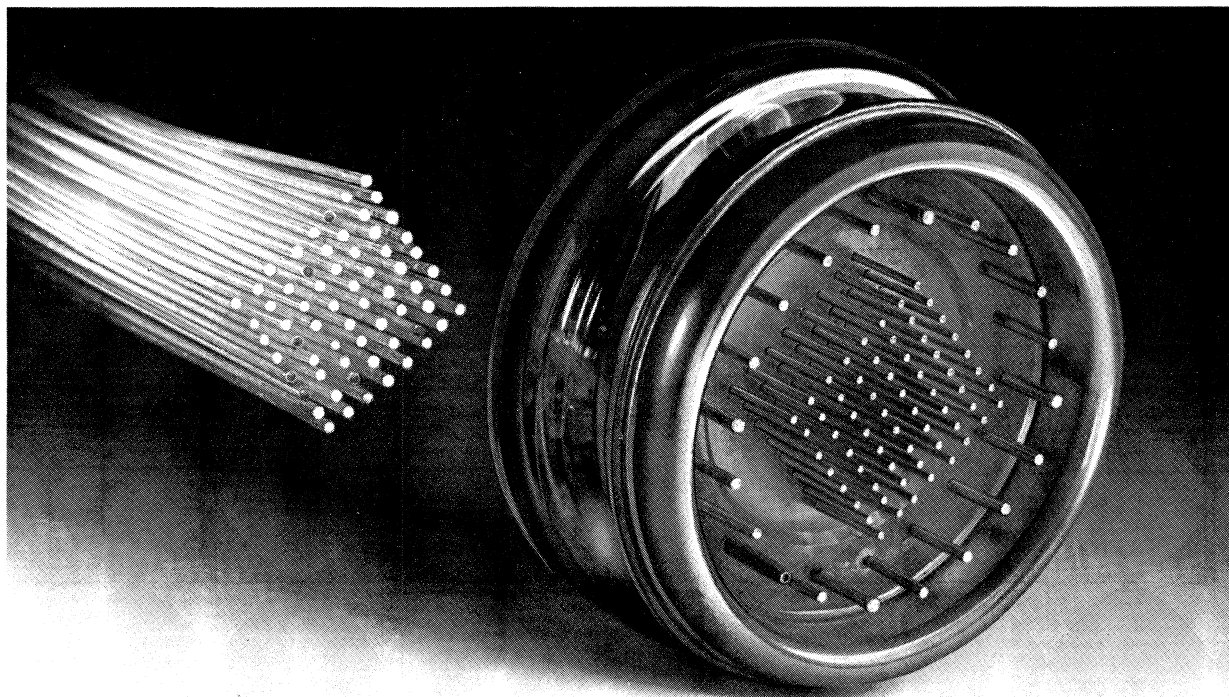
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